Remedial Investigation and Remedial Action Report
Shear Area

Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

EXECUTIVE SUMMARY

In May 2004, Atlantic States Cast Iron Pipe Co. (ASCIP) initiated activities to replace the hydraulic shear associated with the metals handling system for its pipe manufacturing operations. During clearing of scrap metal and removal of the existing shear, petroleum stained soil was observed in the immediate vicinity of the shear. Following observation of the stained soil, ASCIP implemented soil investigation and remediation activities to address the impacted soil.

Initially, the surface soil around the shear was scraped to a depth of approximately 1 foot below grade. Test pits were then installed within the scraped area to evaluate the residual petroleum concentrations and collect horizontal and vertical delineation soil samples. The samples were analyzed for petroleum hydrocarbons (PHC). In addition, 25 percent of the samples with PHC concentrations above 100 parts per million (ppm) were further analyzed for polycyclic aromatic hydrocarbons (PAH). The sampling and analysis followed the New Jersey Department of Environmental Protection's (NJDEP) Technical Requirements for Site Remediation.

Based on the delineation sampling, two additional areas were excavated to greater depths to remediate PHC contamination. During the delineation and post excavation sampling, PAH compounds, specifically benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene, were detected in the residual soils at concentrations above the NJDEP's residential and non-residential direct contact soil cleanup criteria. The concentrations, however, were below the impact to groundwater soil cleanup criteria. Since the installation of the refurbished shear was necessary to cut recycled off-spec or damaged pipe, a 10-inch thick reinforced concrete pad was installed to prevent any future releases from leaks. ASCIP decided to address the residual PAH contamination with the implementation of institutional (Deed Notice) and engineering controls using the reinforced concrete pad. Accordingly, ASCIP proceeded with the installation of the refurbished shear. The area was backfilled and a reinforced concrete pad was installed for the shear. This concrete pad will be the engineering control for the area. A Deed Notice to address the residual contamination for this area of the facility will be prepared and submitted upon NJDEP approval of all remediation activities. To determine the extent of the PAH compounds for the Deed Notice, additional delineation sampling is proposed.

During the classification of the excavated soil for offsite disposal, polychlorinated biphenyls (PCBs) were detected in the stockpiled soil at a concentration of 8.345 ppm, which was above the non-residential direct contact soil cleanup criteria. Based on this finding, additional analyses for PCBs were performed on available delineation and post excavation samples (samples that still met the appropriate laboratory holding times) to determine the residual concentrations in the soil. The analyses identified PCBs in several samples at levels above the residential and non-residential soil cleanup criteria, but below the impact to groundwater soil cleanup criteria. The samples collected at depths of approximately 5 feet and greater revealed non-detectable concentrations of PCBs, indicating that the impacts are limited to the surficial soils. Accordingly, ASCIP will include PCBs in the proposed Deed Notice. To determine the horizontal extent of the PCBs for the Deed Notice, additional soil sampling will be performed.

1.0 INTRODUCTION

Atlantic States Cast Iron Pipe Company (ASCIP) manufactures cast iron pipe at its Phillipsburg, New Jersey facility. As part of the manufacturing operations, recycled off-spec or damaged pipe is purchased and used as a feedstock. The recycled off-spec or damaged pipe is received at the facility and, if necessary, cut to size in a hydraulic shear. In May 2004, ASCIP initiated activities to replace its existing shear. During the replacement activities, petroleum stained soil was observed in the shear area.

Delineation soil sampling and remediation activities subsequently were implemented to address the stained soil. Approximately 275 tons of soil were excavated and removed from the facility as part of the remedial efforts. The excavation activities remediated the soil impacted with petroleum hydrocarbons (PHCs). Residual concentrations of polycyclic aromatic hydrocarbons (PAHs) were identified at concentrations above the New Jersey Department of Environmental Protection's (NJDEP) soil cleanup criteria. In addition, polychlorinated biphenyls (PCBs) were identified in the soil during the waste classification sampling. Residual concentrations of PCBs also were identified in the soil at concentrations above the NJDEP's soil cleanup criteria. Since the installation of the refurbished shear was necessary to cut recycled off-spec or damaged pipe and since a concrete pad was being installed in this area, no further excavation was performed to remediate the residual concentrations. Rather, the residual PAH and PCB compounds will be addressed with institutional and engineering controls. Additional delineation sampling is proposed to determine the extent of the controls.

Following the soil removal, a concrete pad over a gravel base was installed in the shear area. The new hydraulic shear was then installed and the facility resumed manufacturing operations.

The investigation and remediation activities were conducted in accordance with the NJDEP's Technical Requirements for Site Remediation N.J.A.C. 7-26E and the Field Sampling Procedures Manual (1992). Based on the presence of residual PAH and PCB compounds at concentrations above the NJDEP's soil cleanup criteria, a Deed Notice with engineering controls will be prepared and submitted to NJDEP after approval of the remediation activities.

2.0 BACKGROUND

2.1 Physical Setting and Site History

The ASCIP facility is located at 183 Sitgreaves Street in Phillipsburg, New Jersey. The subject property encompasses 21.8 acres in a commercial and industrial area of Phillipsburg. The site is identified as Block 2001, Lot1 in the local tax records. The site is bordered by Sitgreaves Street to the southwest, Stockton Street to the west, Center Street to the east and a main rail line to the north. The site location is shown on Figure 1.

Iron pipe has been manufactured at the facility since 1856. The facility includes a foundry, outdoor storage areas, warehouse, carpenter shop, machine shop, storage buildings, and an office building. The majority of the site is paved with asphalt and/or concrete. In general, the topography at the property is flat to gently sloping. The topography of the overall Phillipsburg area slopes toward the Delaware River. A site plan is provided as Figure 2.

2.2 Area of Environmental Concern

2.2.1 Shear Area

During recent facility improvement activities, one area of concern, the Shear Area, was identified at the facility. The Shear Area is located north of the foundry (see Figure 2). Recycled off-spec or damaged pipe, which is a minor feedstock in the pipe manufacturing operations, is cut to size as necessary by a hydraulic shear in the area and then transferred to the staging area to be fed to the foundry.

During the replacement of the existing shear in May and June of 2004, petroleum stained soil was observed. Following observation of the stained soil, delineation soil sampling and soil remediation activities were implemented in the area. The delineation sampling identified PHC impacted soil which was subsequently excavated and disposed offsite. In addition, PAH compounds were identified at concentrations above the NJDEP soil cleanup criteria. Residual concentrations following the soil excavation activities were above the cleanup criteria. Based on the facility's operational requirements to return the shear to service and the future use of the area, ASCIP determined that institutional and engineering controls would be the appropriate remedy for these residual concentrations. During the waste classification sampling for the offsite disposal of the PHC impacted soil, PCBs were identified at concentrations above the NJDEP's soil cleanup criteria. These compounds also will be included with the institutional and engineering controls that are implemented in this area.

The sampling and remediation activities that were performed in the Shear Area are presented in this report.

2.3 Geology and Hydrogeology

The soils in the general area of the facility are described as glacial drift modified by the Delaware River, and reworked into a stratified deposit of sand, gravel, cobbles and boulders. The specific soils encountered in the Shear Area included silt, sand and gravel mixed with fill consisting of brick and concrete fragments as well as pieces of metal and wood.

The bedrock in the area of ASCIP is mapped as the Allentown Dolomite; dolomite, and less abundant quartzite and shale (New Jersey Geological Survey CD Series CD00-1, Bedrock Geology and Topographic Base Maps of New Jersey). Groundwater at the site is located in the overburden material at a depth of approximately 50 feet below grade. Overall groundwater flow in the area is toward the Delaware River to the south. However, local groundwater flow beneath the site may be influenced by existing recharge areas, subsurface structures, subsurface utilities and differences in the subsurface permeability. During the remediation and sampling activities in the Shear Area that extended to a depth of 11 feet below grade, no groundwater was encountered.

3.0 TECHNICAL APPROACH

Site/remedial investigation (SI/RI) activities and remedial actions were completed at the ASCIP site in Phillipsburg, New Jersey, to address the petroleum impacted soil identified in the Shear Area. The Shear Area is located north of the foundry. Recycled off-spec or damaged pipe, which is a minor feedstock in the pipe manufacturing operations, is cut to size when necessary by a hydraulic shear in the area and then transferred to the foundry staging area.

During the replacement of the existing shear in May and June of 2004, petroleum stained soil was observed. Following observation of the stained soil, delineation soil sampling and soil remediation activities were implemented to evaluate and address the impacts associated with the past operation of the shear. Soil sampling was performed in conjunction with the remedial actions to delineate the extent of the impacted soil and confirm the remediation. The sampling and remedial activities were performed on May 21, June 10, June 14 and June 16, 2004. Following the completion of the remedial activities, the excavated soil was subsequently disposed offsite.

Soil samples were collected from the sidewalls and base of excavated areas as well as from test pits that were installed within the excavations. Sixty four (64) soil samples were collected during the investigation and remedial activities. The samples were collected from 6-inch increments from various depths that extended to 11 feet below grade. Soil samples were visually inspected and screened with a photo-ionization detector (PID). Upon collection, all samples were placed in laboratory-supplied sample bottles, labeled and packaged in ice-filled coolers. Sample coolers were shipped via courier to Accutest Laboratories (NJDEP-certification #12129) of Dayton, New Jersey; under chain-of-custody protocol.

The soil samples were submitted for analysis for PHCs and PAH compounds. During the classification of the excavated soil for offsite disposal, PCBs were detected in the stockpiled soil at concentrations above the NJDEP's soil cleanup criteria. Based on this finding, additional analyses for PCBs were performed on available delineation and post excavation samples (samples that still met the appropriate laboratory holding times) to determine the residual concentrations in the soil. The sampling and analysis followed the NJDEP's Technical Requirements for Site Remediation and the Field Sampling Procedures Manual (1992).

The laboratory analyses were completed within the proper holding times. Method detection limits were achieved and all applicable precision and accuracy criteria were met. Based on these criteria, the data for the investigation and remedial activities are reliable. Laboratory quality assurance/quality control can be found with the laboratory deliverables provided in Appendix A. In addition, computer disks containing the Electronic Disk Deliverables are included with the laboratory deliverables in Appendix A.

4.0 SITE/REMEDIAL INVESTIGATION

4.1 Shear Area

In May 2004, ASCIP initiated soil investigation and remediation activities to evaluate the extent and address the impacted soil. Soil sampling was performed in conjunction with the remedial actions to delineate the extent of the impacted soil and confirm the remediation. The sampling and remedial activities were performed on May 21, June 10, June 14 and June 16, 2004. Following the completion of the remedial activities, the excavated soil was subsequently disposed offsite.

Soil samples were collected from the sidewalls and base of excavated areas as well as from test pits that were installed within the excavations. Sixty four (64) soil samples were collected during the investigation and remedial activities. The samples were collected from 6-inch increments from various depths that extended to 11 feet below grade. Soil samples were visually inspected and screened with a photo-ionization detector (PID). Soil samples were submitted for analysis for PHCs and PAH compounds. In addition, during the classification of the excavated soil for offsite disposal, PCBs were detected in the stockpiled soil at concentrations above the NJDEP's soil cleanup criteria. Based on this finding, additional analyses for PCBs were performed on available delineation and post excavation samples (samples that still met the appropriate laboratory holding times) to determine the residual concentrations in the soil.

4.1.1 Soil Excavation and Sample Collection

4.1.1.1 May 21, 2004 Activities

Following the identification of the petroleum stained soil, ASCIP performed a soil scrape on May 21, 2004, in the area of the former shear. An area approximately 70 feet by 30 feet was scraped to a depth of 1 foot. The excavated materials were stockpiled on the eastern end of the shear area. Ten (10) test pits (TP-1 through TP-10) were then installed within the excavated area to evaluate and delineate the residuals concentrations. Three samples were collected from each test pit. The sample depths below original grade were typically 1-1.5 feet, 2.5-3 feet and 5.5-6 feet. Specific depths on test pits TP-7, TP-8 and TP-9 were altered due to difficulties in installing the test pits. The samples collected from the test pits at 1-1.5 feet below original grade corresponded to the base of the soil scrape.

In addition to the test pits, sample S-2 was collected from the excavated soil stockpiled on the eastern end of the Shear Area. Sample S-1 was collected from soil previously stockpiled on the western end of the Shear Area. The samples were collected at a depth of 0-0.5 feet below grade.

All samples were analyzed for PHCs. In addition, 25 percent of the samples with PHC concentrations above 100 ppm were further analyzed for PAH compounds. Accordingly, the following samples were analyzed for PAH compounds:

S-1 0-0.5 feet	S-2 0-0.5 feet
TP-1 1-1.5 feet	TP-2 1-1.5 feet
TP-5 1-1.5 feet	TP-6 1-1.5 feet
TP-6 5.5-6 feet	TP-9 1-1.5 feet
TP-9 2.5-3 feet	TP-9 4.5-5 feet
TP-10 2.5-3 feet	

The sample locations are illustrated on Figure 3.

4.1.1.2 June 10, 2004 Activities

The results of the initial sampling identified PHC concentrations above the NJDEP's total organic contaminant cap of 10,000 ppm at sample locations S-1 (11,800 ppm), S-2 (11,500 ppm) and TP-2 1-1.5 feet (20,100 ppm). In addition, PAH compounds were identified in samples S-2, TP-6 1-1.5 feet, TP-6 5.5-6 feet, and TP-9 4.5-5 feet at concentrations above the NJDEP's soil cleanup criteria. Specifically, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene were identified at concentrations above the NJDEP's soil cleanup criteria. Based on these results, additional samples were collected to delineate the PAH compounds. In addition, the PHC contaminated soil at TP-2 was excavated. Also, the PHC impacted soil at location S-1 was removed and stockpiled with the other soil excavated during the May 21st soil scrape.

On June 10, 2004, a twenty-foot (20') by twenty-foot (20') area around test pit location TP-2 was excavated to a depth three feet below the original ground surface. Four post-excavation samples (PE-1 through PE-4) were collected after the excavation. PE-1, PE-2 and PE-3 were collected from the eastern, northern and western sidewalls, respectively, at a depth of 0-6 inches below the surface following the May 21st soil scrape. This depth corresponded to 1-1.5 feet below the original grade. PE-4 was collected from 0-6 inches below the bottom of the excavation, which corresponded to a depth of 3-3.5 feet below the original ground surface. The excavation extended to the wall of the foundry to the south and therefore, no sidewall sampling was required in this direction. The post excavation samples were submitted for analysis for PHCs.

The stockpiled soil on the western end of the Shear Area (sample location S-1) also was removed to the original grade of the area, and sample S-3 was collected from a depth of 0-6 inches. The soil was removed from this area and stockpiled with the soil on the eastern end of the Shear Area for subsequent disposal offsite. Sample S-3 was submitted to the laboratory for analysis for PHCs.

In addition, three delineation samples were collected from test pit location TP-9. Samples were collected at depths of 6-6.5 feet, 8-8.5 feet, and 9-9.5 feet. The samples were submitted for analysis for PAH compounds.

The sample locations are illustrated on Figures 3 and 4.

4.1.1.3 June 14, 2004 Activities

The analysis of post excavation samples PE-1 to PE-4 collected on June 10th confirmed that the PHC contaminated soil in this area had been remediated. The analysis of sample S-3 from the

western end of the Shear Area identified 19,000 ppm of PHC which still exceeded the 10,000 ppm total organic contaminant cap. Accordingly, additional soil removal was performed in this area.

In addition, the analysis of samples from TP-9 for PAH compounds identified concentrations above the NJDEP soil cleanup criteria to a depth of 9.5 feet below the original ground surface. Further vertical delineation could not be completed in this area with test pits. However, additional horizontal delineation samples were collected from TP-10 to determine the lateral extent of the PAH compounds. In addition, further delineation of the PAH compounds identified in TP-6 during the May 21st sampling was performed.

On June 14, 2004, test pit locations TP-6 and TP-10 were excavated to greater depths to collect additional samples. Samples were collected from TP-6 at depths of 8-8.5 feet and 9.5-10 feet below the original ground surface. At TP-10, samples were collected at depths of 5.5-6 feet and 8-8.5 feet below the original ground surface. In addition, four new test pit locations (TP-11 through TP-14) were installed around TP-6 to depths of ten (10) to eleven (11) feet below the original ground surface. Soil samples were collected at depths of 1-1.5 feet, 2.5-3 feet, 5.5-6 feet, 8-8.5 feet, 9.5-10 feet and 10.5-11 feet below original ground surface. The samples from the test pits were analyzed for PAH compounds.

In addition to the delineation sampling, a ten-foot (10') by ten-foot (10') area around sample location S-3 was excavated to three feet below original ground surface to remediate the PHC contamination (19,000 ppm) previously identified. Five post-excavation samples (PE-5 through PE-9) were collected after the excavation of the contaminated soil. PE-5, PE-6, PE-7 and PE-8 were collected from the sidewalls at a depth of 0-6 inches below the original grade. PE-9 was collected from 0-6 inches below the base of the excavation. This depth corresponded to 3-3.5 feet below the original grade. The post excavation samples were analyzed for PHCs.

In preparation for the offsite disposal of the PHC contaminated soil, a waste class sample (WC) also was collected from the stockpiled soil on the western end of the Shear Area. The sample was analyzed for PHC, benzene, toluene, ethylbenzene, xylenes, PCBs, and TCLP metals.

The sample locations are illustrated on Figures 3 and 4.

4.1.1.4 June 16, 2004 Activities

The analysis of post excavation samples PE-5 through PE-9 identified acceptable concentrations at all locations except PE-7 and PE-8. At location PE-7 and PE-8, 10,900 ppm and 21,400 ppm of PHCs, respectively, were identified. Based on these findings, additional soils were excavated from location PE-8 south to the building wall of the foundry and from location PE-7 west for approximately 2 feet. The excavation activities were completed on June 16, 2004. The excavation encompassed an area of approximately 80 square feet and extended to a depth of three feet below the ground surface. One additional post-excavation sample (PE-10) was collected from the west sidewall of the excavation. The sample was collected at a depth of 0-6 inches below grade. Since the excavation extended to the building wall to the south, additional post excavation samples were not required in this area. The post excavation sample was analyzed for PHCs.

The sample locations are illustrated on Figure 4.

4.1.2 Analytical Results

During the implementation of the investigation and remediation activities, the data from the sample analyses were compared with the NJDEP Soil Cleanup Criteria (SCC), including the Total Organic Contaminant Cap, Residential Direct Contact Soil Cleanup Criteria (RDCSCC), the Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC), and the Impact to Groundwater Soil Cleanup Criteria (IGWSCC). The evaluation of the data to these criteria formed the basis for determining the additional remediation activities implemented to address the residual concentrations in the soil.

4.1.2.1 May 21, 2004 Activities

PHC concentrations were below the total organic contaminant cap of 10,000 ppm in all samples except S-1 (11,800 ppm), S-2 (11,500 ppm) and TP-2 1-1.5 feet (20,100 ppm). The PHC concentrations ranged from non-detect to 20,100 ppm at TP-2 1-1.5 feet.

Twenty five (25) percent of the samples with PHC concentrations above 100 ppm were further analyzed for PAH compounds. Eleven samples were analyzed. Of these samples, PAH compounds were detected in four samples, S-2 0-0.5 feet, TP-6 1-1.5 feet, TP-6 5.5-6 feet and TP-9 4.5-5 feet, at concentrations above the NJDEP soil cleanup criteria. The specific PAH compounds included benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene. The PAH compounds were detected at concentrations above the RDCSCC and NRDCSCC, but below the IGWSCC. The concentrations of benzo(a)pyrene in excess of the soil cleanup criteria ranged from 0.815 ppm in sample TP-6 1-1.5 feet to 5.79 ppm in sample TP-9 4.5-5 feet. Benzo(b)fluoranthene was identified at concentrations above the cleanup criteria in S-2 at 1.02 ppm, TP-6 1-1.5 feet at 1.23 ppm, TP-6 5.5-6 feet at 1.36 ppm and TP-9 4.5-5 feet at 6.5 ppm. Benzo(k)fluoranthene was identified in only samples TP-6 1-1.5 feet (1.06 ppm) and TP-9 4.5-5 feet (2.53 ppm) at concentrations in excess of the soil cleanup criteria. Benzo(a)anthracene and indeno(1,2,3-cd)pyrene were only detected in TP-9 4.5-5 feet at concentrations above the soil cleanup criteria. The concentrations were 6.73 ppm and 3.7 ppm, respectively.

The sample results are summarized on Table 1. The laboratory data including electronic disk deliverables are provided in Appendix A.

4.1.2.2 June 10, 2004 Activities

The concentrations of PHCs in post excavation samples, PE-1 through PE-4, were below the NJDEP's Total Organic Contaminant Cap of 10,000 ppm. The concentrations ranged from 2,750 ppm in PE-2 to 8,620 ppm in PE-4. The sample results are summarized in Table 2.

The PHC concentration identified in S-3 was 19,000 ppm, which exceeded the NJDEP's Total Organic Contaminant Cap of 10,000 ppm. The sample result is summarized in Table 1.

Analysis of the delineation samples collected at TP-9 from depths of 6-6.5 feet, 8-8.5 feet and 9-9.5 feet identified PAH compounds at concentrations above the NJDEP soil cleanup criteria. The specific PAH compounds included benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene. The concentrations of benzo(a)pyrene ranged from 1.25 ppm at 6-6.5 feet to 2.07 ppm at 9-9.5 feet. Benzo(b)fluoranthene was identified at concentrations of 1.77 ppm (6-6.5 feet), 2.65 ppm (8-8.5 feet), and 2.36 ppm (9-9.5 feet). The concentrations of benzo(k)fluoranthene ranged from 0.632 ppm (below the criteria) at 6-6.5 feet to 1.38 ppm at 9-9.5 feet. Benzo(a)anthracene was detected at 0.943 ppm (6-6.5 feet), 1.57 ppm (8-8.5 feet), and 2.33 ppm (9-9.5 feet).). The concentrations of indeno(1,2,3-cd)pyrene ranged from 0.585 (below the criteria) at 8-8.5 feet to 1.19 ppm at 6-6.5 feet. The sample results are summarized in Table 1.

The laboratory data including electronic disk deliverables for the data are provided in Appendix A.

4.1.2.3 June 14, 2004 Activities

The concentrations of PHCs in post excavation samples, PE-5, PE-6 and PE-9 were below the NJDEP Total Organic Contaminant Cap and ranged from 1,490 ppm at PE-9 to 3,570 ppm at PE-6. The concentrations in PE-7 (10,900 ppm) and PE-8 (21,400 ppm) were above the Total Organic Contaminant Cap of 10,000 ppm. The sample results are summarized in Table 3.

Analysis of the delineation samples collected at TP-6, TP-10 and TP-11 through TP-14 identified PAH compounds in all samples at concentrations above the NJDEP soil cleanup criteria, with the exception of the samples collected at TP-10 8-8.5 feet, TP-12 10.5-11 feet, TP-14 1-1.5 feet and TP-14 9.5-10 feet. The specific PAH compounds included benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene. PAH compounds were undetected in sample TP-14 9.5-10 feet. The concentrations of benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene ranged up to 2.53 ppm, 3.78 ppm, 3.26 ppm, and 1.2 ppm, respectively, in sample TP-12 1-1.5 feet. The concentration of benzo(k)fluoranthene ranged up to 1.3 ppm in sample TP-13 9.5-10 feet.

The analyses of samples TP-10 8-8.5 feet, TP-12 10.5-11 feet and TP-14 9.5-10 feet identified PAH compounds at concentrations below the NJDEP soil cleanup criteria. The results indicate that the vertical extent of the PAH contamination in these areas has been delineated.

The sample results are summarized in Table 2. The laboratory data including electronic disk deliverables for the data are provided in Appendix A.

4.1.2.4 June 16, 2004 Activities

The analysis of post excavation sample PE-10 identified a PHC concentration of 5,680 ppm, which is below the NJDEP's Total Organic Contaminant Cap of 10,000 ppm. The sample result is summarized in Table 1. The laboratory data including electronic disk deliverables for the data are provided in Appendix A.

4.1.2.5 Waste Classification Analysis

On June 14, 2004, a waste classification sample was collected from the stockpiled soil on the western end of the Shear Area in preparation for the offsite disposal of the PHC contaminated soil. The analysis of the sample determined that the materials could be disposed offsite as non-hazardous petroleum contaminated soil. However, in reviewing the analysis, PCBs were identified in the sample at a concentration (8.345 ppm) above the NJDEP's RDCSCC and NRDCSCC. Based on this finding, additional analyses for PCBs were performed on available delineation and post excavation samples (samples that still met the appropriate laboratory holding times) to determine the residual concentrations in the soil. The samples included PE-4, PE-9, TP-9 6-6.5 feet, TP-10 5.5-6 feet, TP-11 2.5-3 feet, TP-11 9.5-10 feet, and TP-12 1-1.5 feet. The analysis of the samples identified concentrations ranging from non-detect in three samples to 42.6 ppm in TP-11 2.5-3 feet. All concentrations were below the IGWSCC and the concentrations below a depth of approximately 5 feet revealed non-detectable concentrations of PCBs, indicating that the impacts are limited to the surficial soils.

4.1.3 Conclusions and Recommendations

The final post excavation sampling for PHCs confirms that the petroleum contaminated soil in the Shear Area has been remediated. The initial and subsequent delineation sampling for PAH compounds indicates that residual concentrations of benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene are present in the soil at concentrations above the NJDEP's residential and non-residential direct contact soil cleanup criteria. The concentrations, however, are below the impact to groundwater soil cleanup criteria.

Since the installation of the refurbished shear was necessary to handle recycled pipe and since a concrete pad was being installed in this area as part of the project, ASCIP decided to address the residual PAH contamination with the implementation of institutional (Deed Notice) and engineering (concrete cap) controls. Accordingly, ASCIP proceeded with the installation of the refurbished shear. The area was first backfilled and a reinforced concrete pad was installed for the shear. A Deed Notice to address the residual contamination for this area of the facility will be prepared and submitted upon approval of the remedial activities by NJDEP. In addition, further delineation sampling is proposed to determine the extent of the PAH compounds for the Deed Notice (see Section 6.0).

During the classification of the excavated soil for offsite disposal, polychlorinated biphenyls (PCBs) were detected in the stockpiled soil at a concentration of 8.345 ppm, which was above the non-residential direct contact soil cleanup criteria. Based on this finding, additional analyses for PCBs were performed on available delineation and post excavation samples (samples that still met the appropriate laboratory holding times) to determine the residual concentrations in the soil. The analyses identified PCBs in several samples at levels above the residential and non-residential soil cleanup criteria, but below the impact to groundwater soil cleanup criteria. The samples collected at depths of approximately 5 feet and greater revealed non-detectable concentrations of PCBs, indicating that the impacts are limited to the surficial soils. Accordingly, ASCIP will include PCBs

in the proposed institutional and engineering controls. To determine the horizontal extent of the PCBs for the Deed Notice, additional soil sampling will be performed (see Section 6.0).

5.0 REMEDIAL ACTION ACTIVITIES

5.1 Shear Area

As discussed in Section 4.0 Site/Remedial Investigation, remedial actions were performed in the Shear Area concurrently with the soil investigation and sampling activities. The remedial actions included the excavation and subsequent offsite disposal of petroleum contaminated soil. The excavation activities occurred over several weeks.

5.1.1 Remedial Actions

Remedial actions consisting of the excavation of petroleum contaminated soil were performed in the Shear Area from May 21, 2004 to June 16, 2004. Initially, the surface soil around the shear was scraped on May 21, 2004 to a depth of approximately 1 foot below grade to remediate petroleum stained soil. The area encompassed approximately 2,100 square feet.

Subsequent soil sampling within the excavated area identified two locations, TP-2 and S-1, which required further soil removal to address residual PHC concentrations. On June 10, 2004, a twenty-foot (20') by twenty-foot (20') area around test pit location TP-2 was excavated to a depth three feet below the original ground surface. Four post-excavation samples (PE-1 through PE-4) were collected from the excavation and analyzed for PHCs. The laboratory analysis confirmed that the residual concentrations were below the NJDEP's Total Organic Contaminant Cap of 10,000 ppm.

In addition to the TP-2 area, the stockpiled soil on the western end of the Shear Area (sample location S-1) was removed on June 10, 2004, to the original grade of the area. The soil was excavated and transferred to the stockpile on the eastern end of the Shear Area for subsequent offsite disposal. One soil sample S-3 was collected from the area of the soil removal and analyzed for PHCs. The analysis identified concentrations above 10,000 ppm. Accordingly, additional excavation was performed in this area.

On June 14, 2004, a ten-foot (10') by ten-foot (10') area was excavated around sample location S-3 to three feet below original ground surface to remediate the PHC contamination (19,000 ppm) previously identified. Five post-excavation samples (PE-5 through PE-9) were collected after the excavation of the contaminated soil. PHC concentrations were below the Total Organic Contaminant Cap in three of the samples. Residual PHCs were identified in PE-7 and PE-8, collected from the western and southern sidewalls at a depth of 0-6 inches below the original grade, at concentrations above the 10,000 ppm criteria. Accordingly, on June 16, 2004, the excavation area was extended southerly to the wall of the foundry building and to the west approximately 3 feet. One post excavation sample (PE-10) was collected from the western sidewall. Analysis of the sample confirmed that the PHC contamination had been remediated.

Additional soil was subsequently removed from the Shear Area in preparation for the installation of the concrete pad. The overall area that had initially been scraped to a depth of approximately 1 foot was further excavated to a depth of 2 feet to accommodate the installation of a gravel base and the concrete pad. In addition, during the loading of the PHC contaminated soil for offsite disposal, the area beneath the soil stockpile on the eastern end of the Shear Area was excavated to a depth of 2

feet. The area was extended to the walls of the foundry building to accommodate the installation of the concrete pad with the gravel base. The areas and depths of excavation are illustrated on Figure 4 along with the post excavation sample locations

Approximately 275 tons of petroleum contaminated soil were removed during the remediation activities. The soil was disposed offsite at Clean Earth of Maryland, Inc. Copies of the disposal manifest are provided in Appendix B.

Based on the soil removal activities and post excavation sample results, no further action is required with regard to the PHC contamination in the Shear Area. Additional activities including delineation sampling (see Section 6.0) and the implementation of institutional and engineering controls are proposed to address the residual PAH and PCB contamination identified during the PHC remediation activities (see Section 6.0).

6.0 PROPOSED INVESTIGATION AND REMEDIAL ACTIONS

During the remediation of the petroleum contaminated soil, PAH compounds, specifically benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene, were detected in the residual soils at concentrations above the NJDEP's residential and non-residential direct contact soil cleanup criteria. The concentrations, however, were below the impact to groundwater soil cleanup criteria. Since the installation of the refurbished shear was necessary to cut recycled off-spec or damaged pipe and since a concrete pad was being installed in this area as part of the project, ASCIP decided to address the residual PAH contamination with the implementation of institutional (Deed Notice) and engineering (concrete cap) controls. Accordingly, ASCIP proceeded with the installation of the refurbished shear. The area was backfilled and a reinforced concrete pad was installed for the shear. A Deed Notice to address the residual contamination for this area of the facility is proposed. The Deed Notice and description of the engineering controls will be prepared and submitted upon the completion of additional PAH delineation activities and the approval of the remedial activities by NJDEP.

The residual PAH concentrations in the soil for the Shear Area are summarized in Table 4. As indicated by the results, PAH concentrations are present at sample locations TP-6, TP-9, TP-10, TP-11, TP-12, TP-13 and TP-14 at levels above the NJDEP soil cleanup criteria. With the exception of TP-12 and TP-14, the sample locations are beneath the new concrete pad. Sample TP-12 is located on the edge of the pad adjacent to TP-6, TP-11 and TP-13. The results for TP-6, TP-11 and TP-13 indicated that the PAH concentrations extended to 10 feet below grade. The analysis of the samples from adjacent TP-12 identified a vertical clean zone at 10.5-11 feet below grade. Based on this result, the vertical extent of the contamination in this area appears to be limited to 11 feet below grade. Based on the presence of PAH compounds at concentrations above the soil cleanup criteria in the shallow depths, TP-14 was installed approximately 20 feet north of TP-12 to provide horizontal delineation. Analysis of the samples from TP-14 identified PAH compounds at concentrations above the criteria at only one depth, 5.5-6 feet below grade. The analysis of the sample from 9.5-10 feet below grade was undetected for PAH compounds, confirming the previous vertical delineation at TP-12.

TP-9 and TP-10 were installed beneath the eastern end of the Shear Area. TP-9 exhibited PAH compounds above the soil cleanup criteria at various depths extending to 9.5 feet below grade. TP-10 which was installed north of TP-9 identified elevated PAH compounds at only 5.5-6 feet below grade. The sample collected from 8-8.5 feet exhibited concentrations below the NJDEP criteria and provided vertical delineation at this location. Based on the sampling completed, the vertical extent of the PAH compounds appears to be delineated and ranges from 8.5 to 11 feet below grade across the area. The horizontal delineation, however, has not been completed and further sampling is proposed to the north and west of the concrete pad and around TP-14. No additional delineation is proposed to the south or east of the Shear Area as this area is bounded by the foundations of the Foundry Building. The proposed delineation sampling is summarized below.

During the classification of the excavated soil for offsite disposal, PCBs were detected in the stockpiled soil at a concentration of 8.345 ppm, which was above the non-residential direct contact soil cleanup criteria. Based on this finding, additional analyses for PCBs were performed on available delineation and post excavation samples (samples that still met the appropriate laboratory

holding times) to determine the residual concentrations in the soil. A summary of the residual PCB concentrations in the soil also is provided in Table 4.

The analyses identified PCBs in several samples at concentrations above the residential and non-residential soil cleanup criteria, but below the impact to groundwater soil cleanup criteria. The samples with PCB concentrations above the criteria were collected from depths of 1-1.5 feet, 2.5-3 feet and 3-3.5 feet below grade. The samples collected at depths of approximately 5 feet and greater revealed non-detectable concentrations of PCBs, indicating that the impacts are limited to the surficial soils. Accordingly, ASCIP will include PCBs in the proposed institutional and engineering controls. To determine the horizontal extent of the PCBs for the Deed Notice, additional soil sampling will be performed. A summary of the proposed soil sampling is provided below.

6.1 Sampling Procedure

The delineation soil sampling will include the installation of borings using direct-push (Geoprobe) and/or hollow stem auger (HSA) drilling techniques. Soil samples will be collected from the borings based on the depths of contamination previously identified as well as visual inspection and field screening for evidence of contamination with a photoionization detector (PID).

Soil borings will be advanced using a direct-push rig (Geoprobe) and 4-foot macro-cores. Soil samples will be collected from the macro-cores using 2-inch outside diameter (O.D.) acetate liners. The soil samples will be visually inspected and screened with a PID for evidence of contamination. The field observations and instrument readings will be recorded in a field logbook and used to determine the sample depths. Soil samples will be collected from the locations and depths specified on Table 5.

Samples will be analyzed for PAH compounds and PCBs as necessary to delineate the previous concentrations identified. The borings will extend to a depth of approximately 12 feet below grade.

Where subsurface obstructions preclude the use of direct-push methods, a truck-mounted drill rig employing HSA drilling techniques will be used to advance the borings. Soil samples will be collected using either 2-inch O.D. by 2-foot long or 3-inch O.D. by 2-foot long split-spoon samplers. The soil samples will be field screened as described above and soil samples will be collected from the locations and depths specified on Table 5.

6.2 Media To Be Sampled

Discrete, 6-inch increment soil samples will be colleted from each boring. The samples will be collected following the procedures described in the NJDEP Field Sampling Procedures Manual (May 1992).

6.3 Sampling Frequency, Locations and Depth

Five borings, B-1 through B-5, will be installed to a depth of approximately 12 feet to delineate the horizontal extent of the PAH compounds. Borings B-1 through B-3 will be installed to the west, north and east of TP-14. Soil samples will be collected from these borings at depths of

approximately 5.5-6 feet below grade to determine the horizontal delineation and 10.5-11 feet below grade to confirm the vertical delineation. Boring B-4 will be installed to the north of TP-10. Similarly, soil samples will be collected from this boring at depths of approximately 5.5-6 feet and 10.5-11 feet below grade. Boring B-5 will be installed to the west of TP-13. Based on previous analytical results, soil samples will be collected from this boring at depths of approximately 1-1.5 feet, 5.5-6 feet, 9.5-10 feet and 10.5-11 feet to delineate the PAH compounds horizontally and vertically in this direction.

To delineate the PCB concentrations, three borings (B-6 through B-8) will be installed to a depth of approximately 6 feet. Boring B-6 will be installed to the west of the concrete pad and borings B-7 and B-8 will be installed to the north of the pad. Soil samples will be collected from the borings at depths of approximately 1-1.5 feet, 2.5-3 feet and 5.5-6 feet to delineate the horizontal extent of the PCBs.

The proposed boring locations are illustrated on Figure 5. The proposed sampling depths, locations and analytical parameters are summarized in Table 5.

6.4 Analytical Parameters

The soil samples from borings B-1 through B-5 will be analyzed for PAH compounds. The samples from B-6 through B-8 will be analyzed for PCBs. A summary of the proposed sampling is provided in Table 5.

Table 1
Delineation Soil Sampling Results
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	S-1 0-0.5 N67805-10 5/21/2004 Soil (ppm)	S-2 0-0.5 N67805-12 5/21/2004 Soil (ppm)	S-3 0-0.5 N69421-1 6/10/2004 Soil (ppm)	TP-1 1-1.5 1-1.5 N67805-1 5/21/2004 Soil (ppm)	TP-1 2.5-3 2.5-3 N67805-2 5/21/2004 Soil (ppm)	TP-1 5.5-6 5.5-6 N67805-3 5/21/2004 Soil (ppm)	TP-2 1-1.5 1-1.5 N67805-4 5/21/2004 Soil (ppm)	TP-2 2.5-3 2.5-3 N67805-5 5/21/2004 Soil (ppm)	TP-2 5.5-6 5.5-6 N67805-6 5/21/2004 Soil (ppm)	TP-3 1-1.5 1-1.5 N67805-7 5/21/2004 Soil (ppm)	TP-3 2.5-3 2.5-3 N67805-8 5/21/2004 Soil (ppm)	TP-3 5.5-6 5.5-6 N67805-9 5/21/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	11800	11500	19000	5280	3420	108	20100	5180	132	4070	3790	125
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	3400	10000	100	ND	0.112	-	0.104	-	-	0.316	-	-	-	-	-
Acenaphthylene	NA	NA	NA	ND	0.0399	-	0.043	-	-	ND	-	-	-	-	-
Anthracene	10000	10000	100	0.17	0.157	-	0.113	-	-	0.163	-	-	-	-	-
Benzo(a)anthracene	0.9	4	500	0.52	0.494	-	0.323	-	-	0.365	-	-	-	-	-
Benzo(a)pyrene	0.66	0.66	100	ND	0.474	-	0.296	-	-	0.295	-	-	-	-	-
Benzo(b)fluoranthene	0.9	4	50	ND	1.02	-	0.566	-	-	0.194	-	-	-	-	-
Benzo(g,h,i)perylene	NA	NA	NA	ND	ND	-	ND	-	-	ND	-	-	-	-	-
Benzo(k)fluoranthene	0.9	4	500	ND	0.729	-	0.416	-	-	0.293	-	-	-	-	-
Chrysene	9	40	500	0.567	0.579	-	0.398	-	-	0.446	-	-	-	-	-
Dibenzo(a,h)anthracene	0.66	0.66	100	ND	ND	-	ND	-	-	ND	-	-	-	-	-
Fluoranthene	2300	10000	100	0.99	1.07	-	0.693	-	-	0.921	-	-	-	-	-
Fluorene	2300	10000	100	0.147	0.164	-	0.123	-	-	0.193	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.9	4	500	ND	ND	-	ND	-	-	ND	-	-	-	-	-
Naphthalene	230	4200	100	2.52	1.59	-	2.5	-	-	0.749	-	-	-	-	-
Phenanthrene	NA	NA	NA	0.971	0.9	-	0.787	-	-	0.97	-	-	-	-	-
Pyrene	1700	10000	100	0.535	0.461	-	0.572	-	-	0.393	-	-	-	-	-
Polychlorinated Biphenyls															
Aroclor 1016				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260				-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	0.49	2	50	-	-	-	-	-	-	-	-	-	-	-	-

Compounds above most stringent soil cleanup criteria
* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 1
Delineation Soil Sampling Results
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-4 1-1.5 1-1.5 N67806-14 5/21/2004 Soil (ppm)	TP-4 2.5-3 2.5-3 N67806-15 5/21/2004 Soil (ppm)	TP-4 5.5-6 5.5-6 N67806-16 5/21/2004 Soil (ppm)	TP-5 1-1.5 1-1.5 N67806-11 5/21/2004 Soil (ppm)	TP-5 2.5-3 2.5-3 N67806-12 5/21/2004 Soil (ppm)	TP-5 5.5-6 5.5-6 N67806-13 5/21/2004 Soil (ppm)	TP-6 1-1.5 1-1.5 N67806-7 5/21/2004 Soil (ppm)	TP-6 2.5-3 2.5-3 N67806-9 5/21/2004 Soil (ppm)	TP-6 5.5-6 5.5-6 N67806-10 5/21/2004 Soil (ppm)	TP-6 8-8.5 8-8.5 N69733-1 6/14/2004 Soil (ppm)	TP-6 9.5-10 9.5-10 N69733-2 6/14/2004 Soil (ppm)	DUP** 9.5-10 N69733-31 6/14/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	2830	146	ND	6000	2110	55	5850	876	ND	-	-	-
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	3400	10000	100	-	-	-	0.0882	-	-	0.136	-	ND	0.0575	0.0439	0.0308
Acenaphthylene	NA	NA	NA	-	-	-	ND	-	-	0.0852	-	0.0518	0.0489	0.0505	0.0348
Anthracene	10000	10000	100	-	-	-	0.0791	-	-	0.243	-	0.128	0.214	0.173	0.1
Benzo(a)anthracene	0.9	4	500	-	-	-	0.229	-	-	0.845	-	0.757	0.949	0.871	0.52
Benzo(a)pyrene	0.66	0.66	100	-	-	-	0.209	-	-	0.815	-	0.84	1.06	1.08	0.714
Benzo(b)fluoranthene	0.9	4	50	-	-	-	0.399	-	-	1.23	-	1.36	1.08	1.02	1.1
Benzo(g,h,i)perylene	NA	NA	NA	-	-	-	ND	-	-	0.0364	-	0.711	0.883	0.996	0.639
Benzo(k)fluoranthene	0.9	4	500	-	-	-	0.345	-	-	1.06	-	0.755	0.886	0.991	0.355
Chrysene	9	40	500	-	-	-	0.279	-	-	0.994	-	0.936	1.1	1.05	0.633
Dibenzo(a,h)anthracene	0.66	0.66	100	-	-	-	ND	-	-	ND	-	0.288	0.316	0.32	0.186
Fluoranthene	2300	10000	100	-	-	-	0.497	-	-	1.83	-	0.846	1.46	1.27	0.839
Fluorene	2300	10000	100	-	-	-	0.08	-	-	0.144	-	ND	0.86	0.061	0.0374
Indeno(1,2,3-cd)pyrene	0.9	4	500	-	-	-	ND	-	-	ND	-	0.635	0.845	0.851	0.539
Naphthalene	230	4200	100	-	-	-	0.869	-	-	0.332	-	0.063	0.0547	0.0678	0.0467
Phenanthrene	NA	NA	NA	-	-	-	0.443	-	-	1.19	-	0.549	0.936	0.732	0.458
Pyrene	1700	10000	100	-	-	-	0.241	-	-	0.967	-	1.28	1.42	1.23	0.617
Polychlorinated Biphenyls															
Aroclor 1016				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1221				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1232				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1242				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1248				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1254				-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260				-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	0.49	2	50	-	-	-	-	-	-	-	-	-	-	-	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
** DUP sample was collected from TP-6 location.
- Not analyzed
ND = Not Detected

Table 1
Delineation Soil Sampling Results
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-7 1-1.5 1-1.5 N67806-1 5/21/2004 Soil (ppm)	TP-7 2.5-3 2.5-3 N67806-2 5/21/2004 Soil (ppm)	TP-7 4.5-5 4.5-5 N67806-3 5/21/2004 Soil (ppm)	TP-8 1-1.5 1-1.5 N67806-17 5/21/2004 Soil (ppm)	TP-8 2.5-3 2.5-3 N67806-18 5/21/2004 Soil (ppm)	TP-9 1-1.5 1-1.5 N67806-4 5/21/2004 Soil (ppm)	TP-9 2.5-3 2.5-3 N67806-5 5/21/2004 Soil (ppm)	TP-9 4.5-5 4.5-5 N67806-6 5/21/2004 Soil (ppm)	TP-9 6-6.5 6-6.5 N69421-6 6/10/2004 Soil (ppm)	TP-9 8-8.5 8-8.5 N69421-7 6/10/2004 Soil (ppm)	TP-9 9-9.5 9-9.5 N69421-8 6/10/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	4750	856	887	2530	146	5250	6760	564	-	-	-
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	3400	10000	100	-	-	-	-	-	0.0718	ND	1.090	0.047	0.114	0.230
Acenaphthylene	NA	NA	NA	-	-	-	-	-	0.0251	ND	1.110	0.077	0.102	0.0785
Anthracene	10000	10000	100	-	-	-	-	-	0.0938	ND	3.800	0.147	0.395	0.717
Benzo(a)anthracene	0.9	4	500	-	-	-	-	-	0.386	0.583	6.730	0.943	1.570	2.330
Benzo(a)pyrene	0.66	0.66	100	-	-	-	-	-	0.419	0.447	5.790	1.250	1.820	2.070
Benzo(b)fluoranthene	0.9	4	50	-	-	-	-	-	0.663	ND	6.600	1.770	2.650	2.360
Benzo(g,h,i)perylene	NA	NA	NA	-	-	-	-	-	ND	ND	3.060	1.150	0.551	1.080
Benzo(k)fluoranthene	0.9	4	500	-	-	-	-	-	0.32	ND	2.530	0.632	1.310	1.380
Chrysene	9	40	500	-	-	-	-	-	0.432	0.674	6.670	1.150	1.630	2.480
Dibenzo(a,h)anthracene	0.66	0.66	100	-	-	-	-	-	ND	ND	0.948	0.294	0.187	0.429
Fluoranthene	2300	10000	100	-	-	-	-	-	0.733	0.938	16.100	1.330	2.950	4.250
Fluorene	2300	10000	100	-	-	-	-	-	0.0829	ND	1.670	0.043	0.130	0.248
Indeno(1,2,3-cd)pyrene	0.9	4	500	-	-	-	-	-	ND	ND	3.710	1.190	0.585	1.110
Naphthalene	230	4200	100	-	-	-	-	-	1.78	4.15	1.070	0.075	0.076	0.067
Phenanthrene	NA	NA	NA	-	-	-	-	-	0.547	1.01	15.200	0.580	1.570	2.730
Pyrene	1700	10000	100	-	-	-	-	-	0	1.13	13.200	1.190	2.250	3.880
Polychlorinated Biphenyls														
Aroclor 1016				-	-	-	-	-	-	-	-	ND	-	-
Aroclor 1221				-	-	-	-	-	-	-	-	ND	-	-
Aroclor 1232				-	-	-	-	-	-	-	-	ND	-	-
Aroclor 1242				-	-	-	-	-	-	-	-	ND	-	-
Aroclor 1248				-	-	-	-	-	-	-	-	ND	-	-
Aroclor 1254				-	-	-	-	-	-	-	-	ND	-	-
Aroclor 1260				-	-	-	-	-	-	-	-	ND	-	-
Total PCBs	0.49	2	50	-	-	-	-	-	-	-	-	ND	-	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 1
Delineation Soil Sampling Results
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-10 1-1.5 1-1.5 N67806-20 5/21/2004 Soil (ppm)	TP-10 2.5-3 2.5-3 N67806-21 5/21/2004 Soil (ppm)	TP-10 5.5-6 5.5-6 N69733-3 6/14/2004 Soil (ppm)	TP-10 8-8.5 8-8.5 N69733-4 6/14/2004 Soil (ppm)	TP-11 1-1.5 1-1.5 N69733-11 6/14/2004 Soil (ppm)	TP-11 2.5-3 2.5-3 N60733-12 6/14/2004 Soil (ppm)	TP-11 5.5-6 5.5-6 N69733-13 6/14/2004 Soil (ppm)	TP-11 8-8.5 8-8.5 N69733-14 6/14/2004 Soil (ppm)	TP-11 9.5-10 9.5-10 N69733-15 6/14/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	1940	3100	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	3400	10000	100	-	0.207	0.331	ND	0.221	-	0.0601	0.0702	0.052
Acenaphthylene	NA	NA	NA	-	ND	0.211	0.0387	0.2	-	0.0563	0.0592	0.0409
Anthracene	10000	10000	100	-	0.181	0.933	0.0578	0.688	-	0.225	0.279	0.132
Benzo(a)anthracene	0.9	4	500	-	0.496	2.38	0.245	1.35	-	1.06	1.25	0.702
Benzo(a)pyrene	0.66	0.66	100	-	0.404	2.16	0.259	1.51	-	1.14	1.35	0.921
Benzo(b)fluoranthene	0.9	4	50	-	0.617	2.66	0.218	2.02	-	1.18	1.55	1.14
Benzo(g,h,i)perylene	NA	NA	NA	-	ND	0.977	0.176	1.06	-	0.854	1.14	0.879
Benzo(k)fluoranthene	0.9	4	500	-	0.375	0.925	0.222	0.656	-	0.867	0.938	0.625
Chrysene	9	40	500	-	0.59	2.23	0.277	1.53	-	1.17	1.49	0.926
Dibenzo(a,h)anthracene	0.66	0.66	100	-	ND	0.317	ND	0.32	-	0.303	0.405	0.286
Fluoranthene	2300	10000	100	-	1.11	6.05	0.555	2.97	-	1.67	2.06	1
Fluorene	2300	10000	100	-	0.104	0.449	0.0279	0.308	-	0.09	0.0859	0.0642
Indeno(1,2,3-cd)pyrene	0.9	4	500	-	ND	0.898	0.155	0.869	-	0.821	1.02	0.765
Naphthalene	230	4200	100	-	0.172	0.295	0.0465	0.292	-	0.0684	0.0616	0.0826
Phenanthrene	NA	NA	NA	-	0.862	0.937	0.351	2.14	-	0.963	1.12	0.665
Pyrene	1700	10000	100	-	0.999	4.86	0.532	2.64	-	1.6	2.04	1.01
Polychlorinated Biphenyls												
Aroclor 1016				-	-	ND	-	-	ND	-	-	ND
Aroclor 1221				-	-	ND	-	-	ND	-	-	ND
Aroclor 1232				-	-	ND	-	-	ND	-	-	ND
Aroclor 1242				-	-	ND	-	-	42.6	-	-	ND
Aroclor 1248				-	-	ND	-	-	ND	-	-	ND
Aroclor 1254				-	-	ND	-	-	ND	-	-	ND
Aroclor 1260				-	-	ND	-	-	ND	-	-	ND
Total PCBs	0.49	2	50	-	-	ND	-	-	42.6	-	-	ND

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 1
Delineation Soil Sampling Results
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-12 1-1.5 1-1.5 N69733-6 6/14/2004 Soil (ppm)	TP-12 5.5-6 5.5-6 N69733-8 6/14/2004 Soil (ppm)	TP-12 8-8.5 8-8.5 N69733-9 6/14/2004 Soil (ppm)	TP-12 10.5-1 10.5-11 N69733-10 6/14/2004 Soil (ppm)	TP-13 1-1.5 1-1.5 N69733-16 6/14/2004 Soil (ppm)	TP-13 5.5-6 5.5-6 N69733-18 6/14/2004 Soil (ppm)	TP-13 9.5-10 9.5-10 N69733-20 6/14/2004 Soil (ppm)	TP-14 1-1.5 1-1.5 N69733-21 6/14/2004 Soil (ppm)	TP-14 5.5-6 5.5-6 N69733-23 6/14/2004 Soil (ppm)	TP-14 9.5-10 9.5-10 N69733-25 6/14/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons													
Acenaphthene	3400	10000	100	0.978	0.16	0.117	ND	0.293	0.0928	0.104	ND	0.644	ND
Acenaphthylene	NA	NA	NA	0.0981	0.0594	0.069	ND	0.178	0.155	0.137	ND	0.356	ND
Anthracene	10000	10000	100	1.73	0.377	0.285	ND	0.659	0.547	0.419	0.0263	2.38	ND
Benzo(a)anthracene	0.9	4	500	3.26	1.02	1.05	0.0275	1.75	1.85	1.6	0.0643	2.63	ND
Benzo(a)pyrene	0.66	0.66	100	2.53	1.05	0.784	0.0238	1.73	1.88	1.7	0.0667	2.44	ND
Benzo(b)fluoranthene	0.9	4	50	3.78	1.38	0.976	0.0276	1.88	1.87	1.67	0.062	3.13	ND
Benzo(g,h,i)perylene	NA	NA	NA	1.42	0.256	0.572	ND	0.476	0.996	1.21	0.0321	0.418	ND
Benzo(k)fluoranthene	0.9	4	500	1.15	0.64	0.707	ND	1.02	1.25	1.3	0.0499	1.52	ND
Chrysene	9	40	500	3.26	1.14	1.37	0.0313	2.06	1.98	1.73	0.0813	2.61	ND
Dibenzo(a,h)anthracene	0.66	0.66	100	0.456	0.114	0.217	ND	0.197	0.434	0.426	ND	0.209	ND
Fluoranthene	2300	10000	100	7.94	1.61	1.65	0.0416	3.36	2.9	2.51	0.138	5.52	ND
Fluorene	2300	10000	100	0.909	0.197	0.125	ND	0.398	0.184	0.174	0.0238	1.46	ND
Indeno(1,2,3-cd)pyrene	0.9	4	500	1.2	0.266	0.542	ND	0.491	1.01	1.14	ND	0.506	ND
Naphthalene	230	4200	100	0.754	0.272	0.181	ND	0.228	0.0684	0.106	2.59	0.629	ND
Phenanthrene	NA	NA	NA	6.69	1.36	1.21	0.0225	2.76	1.96	1.57	0.138	6.85	ND
Pyrene	1700	10000	100	6.23	1.57	1.75	ND	3.75	2.91	2.43	0.145	4.8	ND
Polychlorinated Biphenyls													
Aroclor 1016				ND	-	-	-	-	-	-	-	-	-
Aroclor 1221				ND	-	-	-	-	-	-	-	-	-
Aroclor 1232				ND	-	-	-	-	-	-	-	-	-
Aroclor 1242				4.81	-	-	-	-	-	-	-	-	-
Aroclor 1248				ND	-	-	-	-	-	-	-	-	-
Aroclor 1254				0.95	-	-	-	-	-	-	-	-	-
Aroclor 1260				ND	-	-	-	-	-	-	-	-	-
Total PCBs	0.49	2	50	5.76	-	-	-	-	-	-	-	-	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 2
Post Excavation Sample Results for TP-2 Area
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	PE-1 1-1.5 N69421-2 6/10/2004 Soil (ppm)	PE-2 1-1.5 N69421-3 6/10/2004 Soil (ppm)	PE-3 1-1.5 N69421-4 6/10/2004 Soil (ppm)	PE-4 3-3.5 N69421-5 6/10/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	3500	2750	6300	8620
Polychlorinated Biphenyls							
Aroclor 1016				-	-	-	ND
Aroclor 1221				-	-	-	ND
Aroclor 1232				-	-	-	ND
Aroclor 1242				-	-	-	1.33
Aroclor 1248				-	-	-	ND
Aroclor 1254				-	-	-	0.784
Aroclor 1260				-	-	-	ND
Total PCBs	0.49	2	50	-	-	-	2.114

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.

Concentrations exceeding the Total Organic Contaminant criteria are shaded and in bold.

- Not analyzed
ND = Not Detected

Table 3
Post Excavation Sample Results for S-3 Area
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	PE-5 0-0.5 N69733-26 6/14/2004 Soil (ppm)	PE-6 0-0.5 N69733-27 6/14/2004 Soil (ppm)	PE-7 0-0.5 N69733-28 6/14/2004 Soil (ppm)	PE-8 0-0.5 N69733-29 6/14/2004 Soil (ppm)	PE-9 3-3.5 N69733-30 6/14/2004 Soil (ppm)	PE-10 0-0.5 N69939-1 6/16/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	1670	3570	10900	21400	1490	5680
Polychlorinated Biphenyls									
Aroclor 1016				-	-	-	-	ND	-
Aroclor 1221				-	-	-	-	ND	-
Aroclor 1232				-	-	-	-	ND	-
Aroclor 1242				-	-	-	-	0.549	-
Aroclor 1248				-	-	-	-	ND	-
Aroclor 1254				-	-	-	-	0.671	-
Aroclor 1260				-	-	-	-	0.385	-
Total PCBs	0.49	2	50	-	-	-	-	1.605	-

*: NJDEP criteria for Total Organic Contaminants is 10,000 ppm.

Concentrations exceeding the Total Organic Contaminant criteria are shaded and in bold.

- Not analyzed
ND = Not Detected

Table 4
Summary of Residual Soil Concentrations Following Excavation Activities
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-1 2.5-3 2.5-3 N67805-2 5/21/2004 Soil (ppm)	TP-1 5.5-6 5.5-6 N67805-3 5/21/2004 Soil (ppm)	TP-2 5.5-6 5.5-6 N67805-6 5/21/2004 Soil (ppm)	TP-3 2.5-3 2.5-3 N67805-8 5/21/2004 Soil (ppm)	TP-3 5.5-6 5.5-6 N67805-9 5/21/2004 Soil (ppm)	TP-4 2.5-3 2.5-3 N67806-15 5/21/2004 Soil (ppm)	TP-4 5.5-6 5.5-6 N67806-16 5/21/2004 Soil (ppm)	TP-5 2.5-3 2.5-3 N67806-12 5/21/2004 Soil (ppm)	TP-5 5.5-6 5.5-6 N67806-13 5/21/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	3420	108	132	3790	125	146	ND	2110	55
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	3400	10000	100	-	-	-	-	-	-	-	-	-
Acenaphthylene	NA	NA	NA	-	-	-	-	-	-	-	-	-
Anthracene	10000	10000	100	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.9	4	500	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.66	0.66	100	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.9	4	50	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	NA	NA	NA	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.9	4	500	-	-	-	-	-	-	-	-	-
Chrysene	9	40	500	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	0.66	0.66	100	-	-	-	-	-	-	-	-	-
Fluoranthene	2300	10000	100	-	-	-	-	-	-	-	-	-
Fluorene	2300	10000	100	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.9	4	500	-	-	-	-	-	-	-	-	-
Naphthalene	230	4200	100	-	-	-	-	-	-	-	-	-
Phenanthrene	NA	NA	NA	-	-	-	-	-	-	-	-	-
Pyrene	1700	10000	100	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls												
Aroclor 1016				-	-	-	-	-	-	-	-	-
Aroclor 1221				-	-	-	-	-	-	-	-	-
Aroclor 1232				-	-	-	-	-	-	-	-	-
Aroclor 1242				-	-	-	-	-	-	-	-	-
Aroclor 1248				-	-	-	-	-	-	-	-	-
Aroclor 1254				-	-	-	-	-	-	-	-	-
Aroclor 1260				-	-	-	-	-	-	-	-	-
Total PCBs	0.49	2	50	-	-	-	-	-	-	-	-	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 4
Summary of Residual Soil Concentrations Following Excavation Activities
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-6 2.5-3 2.5-3 N67806-9 5/21/2004 Soil (ppm)	TP-6 5.5-6 5.5-6 N67806-10 5/21/2004 Soil (ppm)	TP-6 8-8.5 8-8.5 N69733-1 6/14/2004 Soil (ppm)	TP-6 9.5-10 9.5-10 N69733-2 6/14/2004 Soil (ppm)	DUP** 9.5-10 N69733-31 6/14/2004 Soil (ppm)	TP-7 2.5-3 2.5-3 N67806-2 5/21/2004 Soil (ppm)	TP-7 4.5-5 4.5-5 N67806-3 5/21/2004 Soil (ppm)	TP-8 2.5-3 2.5-3 N67806-18 5/21/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	876	ND	-	-	-	856	887	146
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	3400	10000	100	-	ND	0.0575	0.0439	0.0308	-	-	-
Acenaphthylene	NA	NA	NA	-	0.0518	0.0489	0.0505	0.0348	-	-	-
Anthracene	10000	10000	100	-	0.128	0.214	0.173	0.1	-	-	-
Benzo(a)anthracene	0.9	4	500	-	0.757	0.949	0.871	0.52	-	-	-
Benzo(a)pyrene	0.66	0.66	100	-	0.84	1.06	1.06	0.714	-	-	-
Benzo(b)fluoranthene	0.9	4	50	-	1.36	1.08	1.02	1.1	-	-	-
Benzo(g,h,i)perylene	NA	NA	NA	-	0.711	0.883	0.996	0.639	-	-	-
Benzo(k)fluoranthene	0.9	4	500	-	0.755	0.886	0.991	0.355	-	-	-
Chrysene	9	40	500	-	0.936	1.1	1.05	0.633	-	-	-
Dibenzo(a,h)anthracene	0.66	0.66	100	-	0.288	0.316	0.32	0.186	-	-	-
Fluoranthene	2300	10000	100	-	0.846	1.46	1.27	0.839	-	-	-
Fluorene	2300	10000	100	-	ND	0.86	0.061	0.0374	-	-	-
Indeno(1,2,3-cd)pyrene	0.9	4	500	-	0.635	0.845	0.851	0.539	-	-	-
Naphthalene	230	4200	100	-	0.063	0.0547	0.0678	0.0467	-	-	-
Phenanthrene	NA	NA	NA	-	0.549	0.936	0.732	0.458	-	-	-
Pyrene	1700	10000	100	-	1.28	1.42	1.23	0.617	-	-	-
Polychlorinated Biphenyls											
Aroclor 1016				-	-	-	-	-	-	-	-
Aroclor 1221				-	-	-	-	-	-	-	-
Aroclor 1232				-	-	-	-	-	-	-	-
Aroclor 1242				-	-	-	-	-	-	-	-
Aroclor 1248				-	-	-	-	-	-	-	-
Aroclor 1254				-	-	-	-	-	-	-	-
Aroclor 1260				-	-	-	-	-	-	-	-
Total PCBs	0.49	2	50	-	-	-	-	-	-	-	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
** DUP sample was collected from TP-6 location.
- Not analyzed
ND = Not Detected

Table 4
Summary of Residual Soil Concentrations Following Excavation Activities
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-9 2.5-3 2.5-3 N67806-5 5/21/2004 Soil (ppm)	TP-9 4.5-5 4.5-5 N67806-6 5/21/2004 Soil (ppm)	TP-9 6-6.5 6-6.5 N69421-6 6/10/2004 Soil (ppm)	TP-9 8-8.5 8-8.5 N69421-7 6/10/2004 Soil (ppm)	TP-9 9-9.5 9-9.5 N69421-8 6/10/2004 Soil (ppm)	TP-10 2.5-3 2.5-3 N67806-21 5/21/2004 Soil (ppm)	TP-10 5.5-6 5.5-6 N69733-3 6/14/2004 Soil (ppm)	TP-10 8-8.5 8-8.5 N69733-4 6/14/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	6760	564	-	-	-	3100	-	-
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	3400	10000	100	ND	1.090	0.047	0.114	0.230	0.207	0.331	ND
Acenaphthylene	NA	NA	NA	ND	1.110	0.077	0.102	0.0785	ND	0.211	0.0387
Anthracene	10000	10000	100	ND	3.800	0.147	0.395	0.717	0.181	0.933	0.0578
Benzo(a)anthracene	0.9	4	500	0.583	6.730	0.943	1.570	2.330	0.496	2.36	0.245
Benzo(a)pyrene	0.66	0.66	100	0.447	5.790	1.250	1.820	2.070	0.404	2.16	0.259
Benzo(b)fluoranthene	0.9	4	50	ND	6.500	1.770	2.650	2.360	0.617	2.66	0.218
Benzo(g,h,i)perylene	NA	NA	NA	ND	3.060	1.150	0.551	1.080	ND	0.977	0.176
Benzo(k)fluoranthene	0.9	4	500	ND	2.530	0.632	1.310	1.380	0.375	0.925	0.222
Chrysene	9	40	500	0.674	6.670	1.150	1.630	2.480	0.59	2.23	0.277
Dibenzo(a,h)anthracene	0.66	0.66	100	ND	0.948	0.294	0.187	0.429	ND	0.317	ND
Fluoranthene	2300	10000	100	0.938	16.100	1.330	2.950	4.250	1.11	6.05	0.555
Fluorene	2300	10000	100	ND	1.670	0.043	0.130	0.248	0.104	0.449	0.0279
Indeno(1,2,3-cd)pyrene	0.9	4	500	ND	3.710	0.190	0.585	1.110	ND	0.898	0.155
Naphthalene	230	4200	100	4.15	1.070	0.075	0.076	0.067	0.172	0.295	0.0465
Phenanthrene	NA	NA	NA	1.01	15.200	0.580	1.570	2.730	0.862	0.937	0.351
Pyrene	1700	10000	100	1.13	13.200	1.190	2.250	3.880	0.999	4.86	0.532
Polychlorinated Biphenyls											
Aroclor 1016				-	-	ND	-	-	-	ND	-
Aroclor 1221				-	-	ND	-	-	-	ND	-
Aroclor 1232				-	-	ND	-	-	-	ND	-
Aroclor 1242				-	-	ND	-	-	-	ND	-
Aroclor 1248				-	-	ND	-	-	-	ND	-
Aroclor 1254				-	-	ND	-	-	-	ND	-
Aroclor 1260				-	-	ND	-	-	-	ND	-
Total PCBs	0.49	2	50	-	-	ND	-	-	-	ND	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 4
Summary of Residual Soil Concentrations Following Excavation Activities
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-11 2.5-3 2.5-3 N60733-12 6/14/2004 Soil (ppm)	TP-11 5.5-6 5.5-6 N69733-13 6/14/2004 Soil (ppm)	TP-11 8-8.5 8-8.5 N69733-14 6/14/2004 Soil (ppm)	TP-11 9.5-10 9.5-10 N69733-15 6/14/2004 Soil (ppm)	TP-12 1-1.5 1-1.5 N69733-6 6/14/2004 Soil (ppm)	TP-12 5.5-6 5.5-6 N69733-8 6/14/2004 Soil (ppm)	TP-12 8-8.5 8-8.5 N69733-9 6/14/2004 Soil (ppm)	TP-12 10.5-11 10.5-11 N69733-10 6/14/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	3400	10000	100	-	0.0601	0.0702	0.052	0.978	0.16	0.117	ND
Acenaphthylene	NA	NA	NA	-	0.0563	0.0592	0.0409	0.0981	0.0594	0.069	ND
Anthracene	10000	10000	100	-	0.225	0.279	0.132	1.73	0.377	0.285	ND
Benzo(a)anthracene	0.9	4	500	-	1.06	1.25	0.702	3.26	1.02	1.05	0.0275
Benzo(a)pyrene	0.66	0.66	100	-	1.14	1.35	0.921	2.53	1.05	0.784	0.0238
Benzo(b)fluoranthene	0.9	4	50	-	1.18	1.55	1.14	3.78	1.38	0.976	0.0276
Benzo(g,h,i)perylene	NA	NA	NA	-	0.854	1.14	0.879	1.42	0.256	0.572	ND
Benzo(k)fluoranthene	0.9	4	500	-	0.867	0.938	0.625	1.15	0.64	0.707	ND
Chrysene	9	40	500	-	1.17	1.49	0.926	3.26	1.14	1.37	0.0313
Dibenzo(a,h)anthracene	0.66	0.66	100	-	0.303	0.405	0.286	0.456	0.114	0.217	ND
Fluoranthene	2300	10000	100	-	1.67	2.06	1	7.94	1.61	1.95	0.0416
Fluorene	2300	10000	100	-	0.09	0.0859	0.0642	0.909	0.197	0.125	ND
Indeno(1,2,3-cd)pyrene	0.9	4	500	-	0.821	1.02	0.765	1.2	0.286	0.542	ND
Naphthalene	230	4200	100	-	0.0684	0.0816	0.0826	0.754	0.272	0.181	ND
Phenanthrene	NA	NA	NA	-	0.963	1.12	0.665	6.69	1.36	1.21	0.0225
Pyrene	1700	10000	100	-	1.6	2.04	1.01	6.23	1.57	1.75	ND
Polychlorinated Biphenyls											
Aroclor 1016				ND	-	-	ND	ND	-	-	-
Aroclor 1221				ND	-	-	ND	ND	-	-	-
Aroclor 1232				ND	-	-	ND	ND	-	-	-
Aroclor 1242				42.6	-	-	ND	4.81	-	-	-
Aroclor 1248				ND	-	-	ND	ND	-	-	-
Aroclor 1254				ND	-	-	ND	0.95	-	-	-
Aroclor 1260				ND	-	-	ND	ND	-	-	-
Total PCBs	0.49	2	50	42.6	-	-	ND	5.76	-	-	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 4
Summary of Residual Soil Concentrations Following Excavation Activities
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

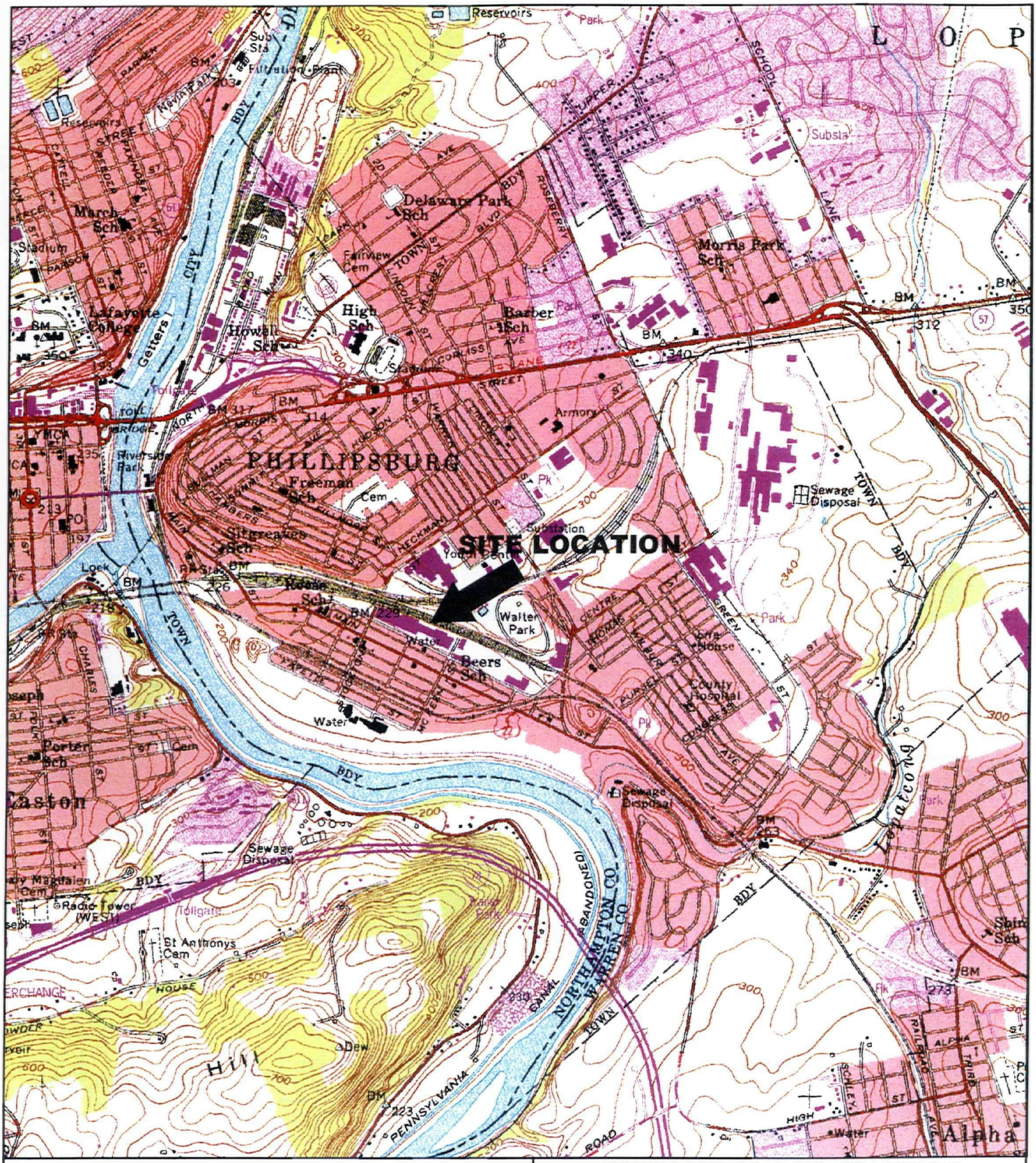
Sample No. Sample Depth (feet below original ground surface) Lab Sample Number Sampling Date Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Non-Residential Direct Contact Soil Cleanup Criteria (ppm)	New Jersey Impact to Ground Water Soil Cleanup Criteria (ppm)	TP-13 5.5-6 5.5-6 N69733-18 6/14/2004 Soil (ppm)	TP-13 9.5-10 9.5-10 N69733-20 6/14/2004 Soil (ppm)	TP-14 1-1.5 1-1.5 N69733-21 6/14/2004 Soil (ppm)	TP-14 5.5-6 5.5-6 N69733-23 6/14/2004 Soil (ppm)	TP-14 9.5-10 9.5-10 N69733-25 6/14/2004 Soil (ppm)	PE-4 3-3.5 N69421-5 6/10/2004 Soil (ppm)	PE-9 3-3.5 N69733-30 6/14/2004 Soil (ppm)	PE-10 0-0.5 N69939-1 6/16/2004 Soil (ppm)
Total Petroleum Hydrocarbons	10000*	10000*	10000*	-	-	-	-	-	8620	1490	5680
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	3400	10000	100	0.0928	0.104	ND	0.644	ND	-	-	-
Acenaphthylene	NA	NA	NA	0.155	0.137	ND	0.356	ND	-	-	-
Anthracene	10000	10000	100	0.547	0.419	0.0263	2.38	ND	-	-	-
Benzo(a)anthracene	0.9	4	500	1.85	1.6	0.0643	2.63	ND	-	-	-
Benzo(a)pyrene	0.66	0.66	100	1.88	1.7	0.0667	2.44	ND	-	-	-
Benzo(b)fluoranthene	0.9	4	50	1.87	1.67	0.062	3.13	ND	-	-	-
Benzo(g,h,i)perylene	NA	NA	NA	0.996	1.21	0.0321	0.418	ND	-	-	-
Benzo(k)fluoranthene	0.9	4	500	1.25	1.3	0.0499	1.52	ND	-	-	-
Chrysene	9	40	500	1.98	1.73	0.0813	2.61	ND	-	-	-
Dibenzo(a,h)anthracene	0.66	0.66	100	0.434	0.426	ND	0.209	ND	-	-	-
Fluoranthene	2300	10000	100	2.9	2.51	0.136	5.52	ND	-	-	-
Fluorene	2300	10000	100	0.184	0.174	0.0238	1.46	ND	-	-	-
Indeno(1,2,3-cd)pyrene	0.9	4	500	1.01	1.14	ND	0.506	ND	-	-	-
Naphthalene	230	4200	100	0.0684	0.106	2.59	0.829	ND	-	-	-
Phenanthrene	NA	NA	NA	1.96	1.57	0.138	6.85	ND	-	-	-
Pyrene	1700	10000	100	2.91	2.43	0.145	4.8	ND	-	-	-
Polychlorinated Biphenyls											
Aroclor 1016				-	-	-	-	-	ND	ND	-
Aroclor 1221				-	-	-	-	-	ND	ND	-
Aroclor 1232				-	-	-	-	-	ND	ND	-
Aroclor 1242				-	-	-	-	-	1.33	0.549	-
Aroclor 1248				-	-	-	-	-	ND	ND	-
Aroclor 1254				-	-	-	-	-	0.784	0.671	-
Aroclor 1260				-	-	-	-	-	ND	0.385	-
Total PCBs	0.49	2	50	-	-	-	-	-	2.114	1.605	-

Compounds above most stringent soil cleanup criteria

* NJDEP criteria for Total Organic Contaminants is 10,000 ppm.
- Not analyzed
ND = Not Detected

Table 5
Summary of Proposed Delineation Soil Sampling
Atlantic States Cast Iron Pipe Company
Phillipsburg, New Jersey

Proposed Sample Location	Total Depth, ft	Sample Interval	Sample Matrix	Sample Method	Analysis	Purpose
Soil Investigation						
B-1	12	5.5-6 feet below grade 10.5-11 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PAH Compounds	Delineation west of TP-14
B-2	12	5.5-6 feet below grade 10.5-11 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PAH Compounds	Delineation north of TP-14
B-3	12	5.5-6 feet below grade 10.5-11 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PAH Compounds	Delineation east of TP-14
B-4	12	5.5-6 feet below grade 10.5-11 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PAH Compounds	Delineation north of TP-10
B-5	12	1-1.5 feet below grade 5.5-6 feet below grade 9.5-10 feet below grade 10.5-11 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PAH Compounds	Delineation west of TP-13
B-6	6	1-1.5 feet below grade 2.5-3 feet below grade 5.5-6 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PCBs	Delineation west of concrete pad
B-7	6	1-1.5 feet below grade 2.5-3 feet below grade 5.5-6 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PCBs	Delineation north of concrete pad
B-8	6	1-1.5 feet below grade 2.5-3 feet below grade 5.5-6 feet below grade	Soil	Geoprobe or Hollow Stem Auger	PCBs	Delineation north of concrete pad



Source: USGS 7.5 Minute Topographic Quadrangle
Easton, N.J. - P.A.
Dated 1956, Photorevised 1994

Q:\3852\Technical\GIS\USGS MAP

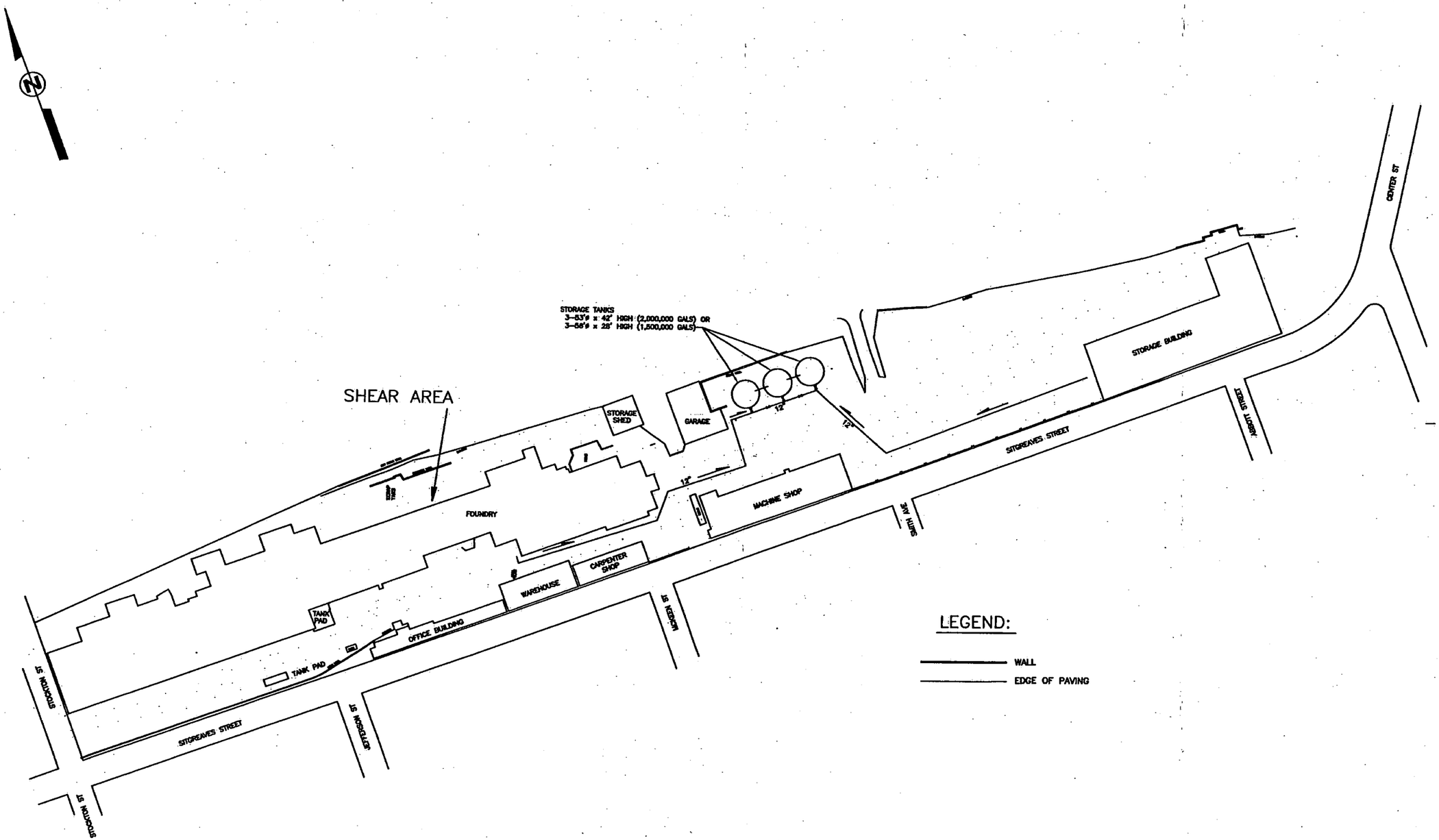
ATLANTIC STATES CAST IRON PIPE COMPANY
PHILLIPSBURG, NEW JERSEY

SITE LOCATION

SCALE: AS INDICATED **DATE: MAY 2005**

Dewberry-Goodkind, Inc.

FIGURE 1



Q:\3852\CAD\Envir\SitePlan.dwg

ATLANTIC STATES CAST IRON PIPE COMPANY
PHILLIPSBURG, NEW JERSEY

SITE PLAN

Scale: As Indicated | DATE: MAY 2005

Dewberry-Goodkind, Inc. | FIGURE NO. 2

15'H STONE W

CONCRETE WALL

SCRAP YARD

TP-14

TP-12 TP-5 TP-10 S-2 TP-8 TP-4 TP-9 TP-7 TP-6 TP-11 TP-13 TP-1 TP-2 S-1 TP-3 S-3

EXCAVATED SOIL STOCKPILE

AREA OF 1 FOOT SOIL SCRAPE (MAY 21, 2004)

SOIL PILE

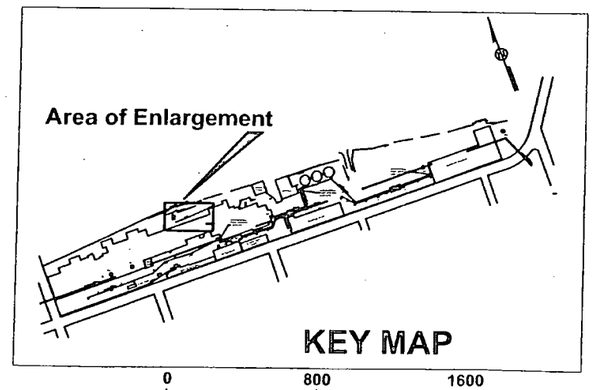
N

FOUNDRY

0 20 40

10 30

(in feet)



0 800 1600

400 1200

(in feet)

LEGEND:

- SAMPLE LOCATION
- TP — TEST PIT
- S — SOIL SAMPLE
- SOIL PILE
- EXCAVATED SOIL STOCKPILE
- AREA OF 1 FOOT SOIL SCRAPE (MAY, 21, 2004)

ATLANTIC STATES CAST IRON PIPE COMPANY
PHILLIPSBURG, NEW JERSEY

SOIL SAMPLE LOCATIONS

Scale: As Indicated DATE: JULY 2004

Dewberry-Goodkind, Inc. FIGURE NO. 3

Q:\3852\CAD\Envir\TP&S.dwg

15'H STONE WA

CONCRETE WALL

SCRAP YARD

EXCAVATED TO 3 FT BELOW ORIGINAL GRADE (JUNE 14, 2004)

EXCAVATED SOIL STOCKPILE REMOVED FOR DISPOSAL

FINAL SOIL EXCAVATION TO APPROXIMATELY 2 FT BELOW ORIGINAL GRADE FOR CONCRETE PAD INSTALLATION

PE-2
PE-3
PE-4
PE-1
PE-6
PE-5
PE-9
PE-10
PE-7
PE-8

EXCAVATED TO 3 FT BELOW ORIGINAL GRADE (JUNE 10, 2004)

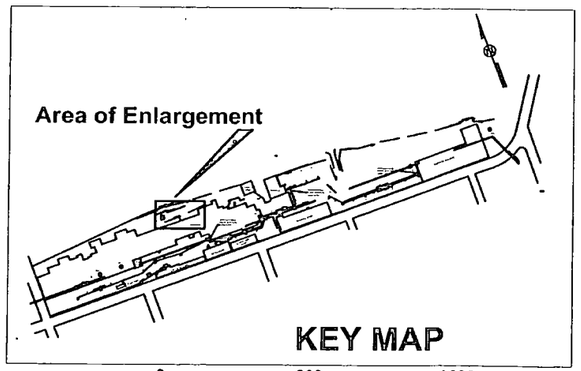
SOIL PILE EXCAVATED TO ORIGINAL GRADE (JUNE 10, 2004)

EXCAVATED TO 3 FT BELOW ORIGINAL GRADE (JUNE 16, 2004)

FOUNDRY

N

0 20 40
10 30
(in feet)



0 800 1600
400 1200
(in feet)

LEGEND:

- SAMPLE LOCATION
- PE — POST EXCAVATION SAMPLE
- EXCAVATION ON JUNE 10, 2004
- EXCAVATION ON JUNE 14, 2004
- EXCAVATION ON JUNE 16, 2004
- FINAL EXCAVATION FOR PAD INSTALLATION
- EXCAVATED SOIL REMOVED FOR DISPOSAL

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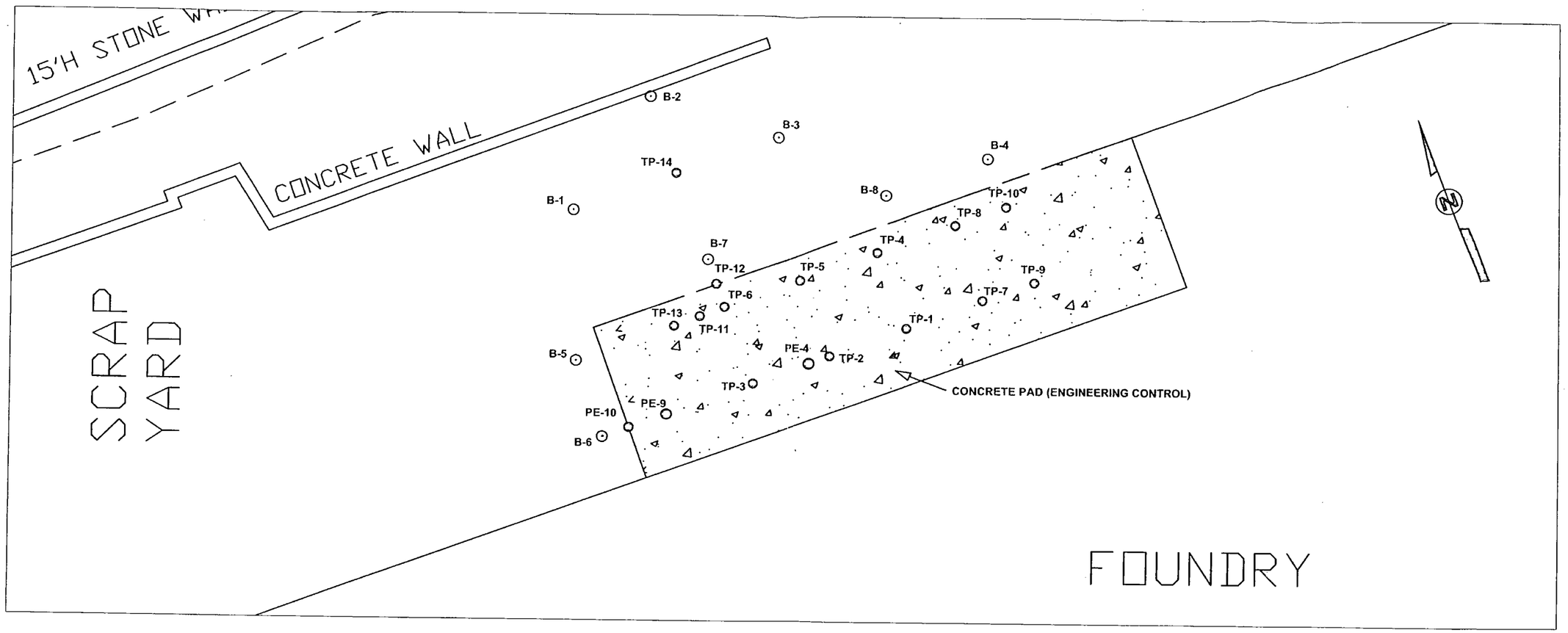
ATLANTIC STATES CAST IRON PIPE COMPANY
PHILLIPSBURG, NEW JERSEY

SOIL EXCAVATION AREAS

Scale: As Indicated | DATE: JULY 2004

Dewberry-Goodkind, Inc.
A Dewberry Company

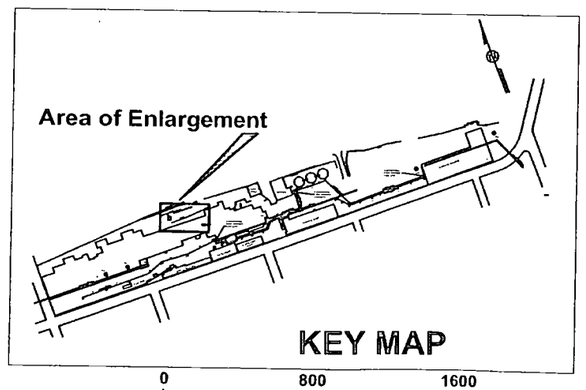
FIGURE NO. 4



0 20 40

10 30

(in feet)



0 800 1600

400 1200

(in feet)

LEGEND:

- (16) PREVIOUS SAMPLE LOCATION
- ⊙ PROPOSED SAMPLE LOCATION
- **TP-1** TEST PIT
- **B-1** PROPOSED SAMPLE
- **PE-9** POST EXCAVATION SAMPLE
- CONCRETE

ATLANTIC STATES CAST IRON PIPE COMPANY
PHILLIPSBURG, NEW JERSEY

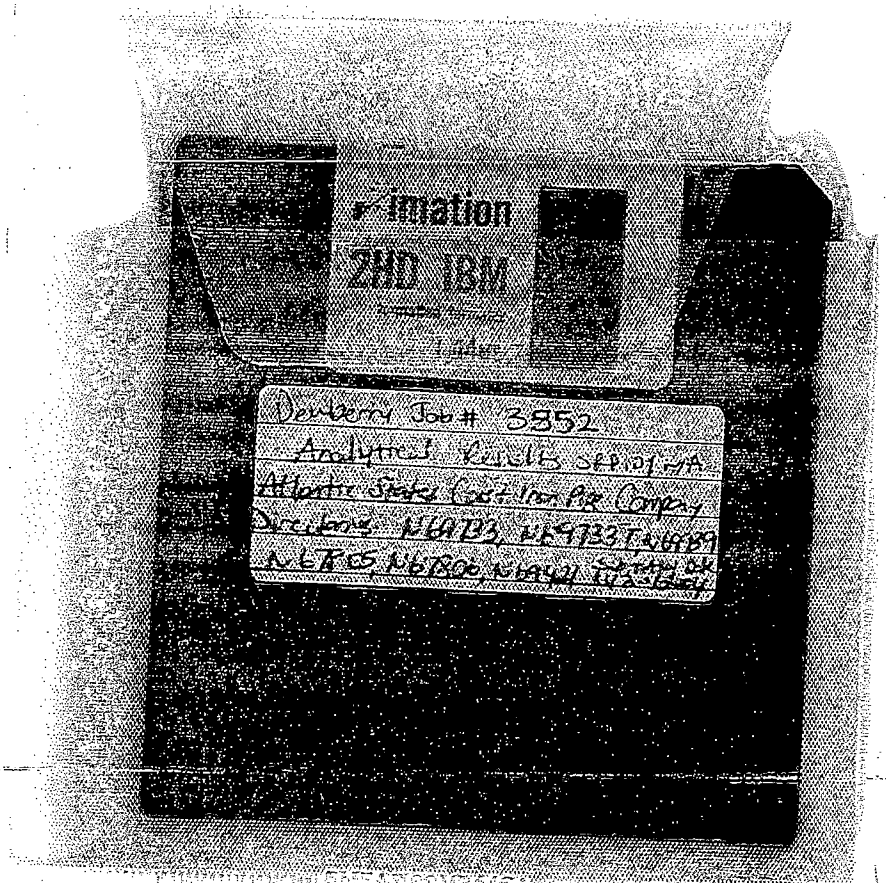
PROPOSED DELINEATION SAMPLE LOCATIONS

Scale: As Indicated — DATE: NOVEMBER 2004

Dewberry-Goodkind, Inc. — FIGURE NO. 5

Q:\3852\CAD\Envlrl\Prop_SL.dwg

Laboratory data and electronic disk deliverables are provided under separate cover in three (3) volumes.


imation
2HD IBM
Dewberry Job # 3852
Analytical Results
Atlantic States Cast Iron Pipe Company

September 20, 2004

Elk Environmental Services, Inc.
1420 Clarion Street
Reading, PA 19601

Clean Earth of Maryland, Inc. does hereby certify that **184.70** tons of TPH Soil was transported in **10** truck/s and was received on July 6-23, 2004 under Clean Earth of Maryland, Inc. **Approval Number: 04480-EK, Invoice Number: EK379** from the following:

Generator: Atlantic States
183 Sitgreaves Street
Phillipsburg, NJ 08855

Job Site: Atlantic States
183 Sitgreaves Street
Phillipsburg, NJ 08855

Agent: Elk Environmental Services, Inc.
1420 Clarion Street
Reading, PA 19601

Subject recycling is performed in accordance with criteria as set forth by the State of Maryland under permit numbers: 2000-OPS, 2000-OPX-3065, and 21-00213. All processing was completed as of August 31, 2004 at Clean Earth of Maryland, Inc., 1469 Oak Ridge Place, Hagerstown, Maryland. Payment has been made in full, constituting a complete release of financial and environmental liability of the generator.

Tara Weigand
Office Manager

Nancy A. Roberts
Controller

1469 Oak Ridge Place • Hagerstown, Maryland 21740-7485
Phone 301/791-6220 • Fax 301/791-6044

July 9, 2004

Ecracom, Inc.
P.O. Box 421
Ramsey, NJ 07446

Clean Earth of Maryland, Inc. does hereby certify that **90.11** tons of TPH Soil was transported in **4** truck/s, and was received on June 28 & 30, 2004 under Clean Earth of Maryland, Inc. **Approval Number: 04133-EI, Invoice Number: EI169** from the following:

Generator: Atlantic States Cast Iron Pipe Co.
183 Sitgreaves Street
Phillipsburg, NJ 08865

Job Site: Atlantic States Cast Iron Pipe Co.
183 Sitgreaves Street
Phillipsburg, NJ 08865

Agent: Ecracom, Inc.
P.O. Box 421
Ramsey, NJ 07446

Subject recycling is performed in accordance with criteria as set forth by the State of Maryland under permit numbers: 2000-OPS, 2000-OPX-3065, and 21-00213. All processing was completed as of July 30, 2004 at Clean Earth of Maryland, Inc., 1469 Oak Ridge Place, Hagerstown, Maryland. Payment has been made in full, constituting a complete release of financial and environmental liability of the generator.

Tara Weigand
Office Manager

Nancy Roberts
Nancy A. Roberts
Controller

1469 Oak Ridge Place • Hagerstown, Maryland 21740-7485
Phone 301/791-6220 • Fax 301/791-6044

Clean Earth of MD, Inc.

№ 137031

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

APPROVAL # _____

LOAD # _____

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
PHONE:	Eli Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4780 PHONE:
TRUCK# 232 TRAILER# 93 VEHICLE TYPE ROLOFF EST. QTY 15 YDS DRIVER NAME X Wayne C Mark	GENERATOR NAME & ADDRESS: Atlantic States 183 Edgewater Street Philipsburg, NJ 08865 908-454-1181 PHONE:
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X _____

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS _____ TARE _____ NET _____ TONS _____
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X _____	

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

№ 137037

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

04420-EK

APPROVAL # ______________

LOAD # ______________

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Elk Transportation Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE:	Elk Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE:
TRUCK# 228 TRAILER# 79 ... VEHICLE TYPE ______ EST. QTY ______ DRIVER NAME X [signature]	GENERATOR NAME & ADDRESS: Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE:
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS ______ TARE ______
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X ______	NET ______ TONS ______

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137242

APPROVAL # ________

LOAD # ________

CARRIER NAME & ADDRESS:

SMP Inc
Phillipsburg NJ

PHONE

CUSTOMER/AGENT & ADDRESS:

PHONE

TRUCK# 519 **TRAILER#** 417

VEHICLE TYPE ________ **EST. QTY** 24.0

DRIVER NAME X ________

GENERATOR NAME & ADDRESS:

PHONE

DESCRIPTION OF COMMODITIES:

RCRA NONHAZARDOUS
DOT NONREGULATED
SEPARATED AT POINT OF ORIGIN
DESTINED FOR RECYCLING/REUSE

I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM.

SIGNATURE: X ________

BILL OF LADING

LOAD DATE:

RECEIVING DATE:

DELIVER TO:

CLEAN EARTH OF MD, INC.
1469 OAK RIDGE PLACE
HAGERSTOWN, MD 21740

I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT.

SIGNATURE: X ________

WEIGHTS:

GROSS ________

TARE ________

NET ________

TONS ________

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

1517 20085

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137035

APPROVAL # 04480-EK

LOAD # ______

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Horwith Trucks inc PO Box 7 Rt 329 Northampton PA PHONE: 610-261-2220	Elk Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE
TRUCK# 580 TRAILER# N/A VEHICLE TYPE F/L EST. QTY 13 Tons DRIVER NAME X [signature]	GENERATOR NAME & ADDRESS: Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS ______ TARE ______ NET ______ TONS ______
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X ______	

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137029

APPROVAL # 04480-EN

LOAD # ____

CARRIER NAME & ADDRESS: [illegible]

PHONE: [illegible]

CUSTOMER/AGENT & ADDRESS:
EK Environmental Services, Inc.
1420 Clinton Street
Reading, PA 19601

610-372-4760

PHONE:

TRUCK# [illegible] TRAILER# [illegible]

VEHICLE TYPE [illegible] EST. QTY [illegible]

DRIVER NAME X [illegible]

GENERATOR NAME & ADDRESS:
Atlantic States
183 Sitgreaves Street
Phillipsburg, NJ 08865

908-454-1161

PHONE:

DESCRIPTION OF COMMODITIES:
Hydraulic Oil & Soil

RCRA NONHAZARDOUS
DOT NONREGULATED
SEPARATED AT POINT OF ORIGIN
DESTINED FOR RECYCLING/REUSE

I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM.

SIGNATURE: X [illegible]

BILL OF LADING

LOAD DATE:

RECEIVING DATE:

DELIVER TO:

CLEAN EARTH OF MD, INC.
1469 OAK RIDGE PLACE
HAGERSTOWN, MD 21740

I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT.

SIGNATURE: X

WEIGHTS:

GROSS ____

TARE ____

NET ____

TONS ____

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

№ 137023

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

APPROVAL # D480-EK

LOAD # _____

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
PHONE	EK Environmental Services, Inc. 1420 Clenon Street Reading, PA 19601 610-372-4700 PHONE
TRUCK# 580 TRAILER# N/A	GENERATOR NAME & ADDRESS: Atlantic States 183 Sigreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE
VEHICLE TYPE _____ EST. QTY 30	
DRIVER NAME X	
DESCRIPTION OF COMMODITIES: Impacted Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X _____

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS _____ TARE _____ NET _____ TONS _____
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X _____	

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

30017

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137022

04480-EK

APPROVAL # ______________ LOAD # 3

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Horwith Trucks Inc Rt. 329 Northampton, Pa 18067 PHONE: 610-261-2220	Elk Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE:
TRUCK# 572 TRAILER# 305 VEHICLE TYPE R/o EST. QTY 15 T DRIVER NAME X [signature]	GENERATOR NAME & ADDRESS: Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1361 PHONE:
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS ______________ TARE ______________
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X ______________	NET ______________ TONS ______________

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

№ 137030

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

APPROVAL # 0440-ER

Box 20102

LOAD # _____

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Horwith Trucking Inc PO Box 7 R1329 Montrose PA 18801 PHONE 261-7220	Ek Environmental Services, Inc. 1420 Clarion Street Reading PA 19601 610-372-4750 PHONE:
TRUCK# 555 TRAILER# _____	GENERATOR NAME & ADDRESS: Atlantic States 183 Segnesvos Street Pittsburg, NJ 08855 908-454-1161 PHONE:
VEHICLE TYPE S Truck EST. QTY _____	
DRIVER NAME X R Dick	
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X _____

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS _____ TARE _____ NET _____ TONS _____
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X _____	

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

20086

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137034

04480-EK

APPROVAL # ______

LOAD # ______

CARRIER NAME & ADDRESS:
Horwith Trucks Inc
PO Box 7 Rt 329
Northampton PA

PHONE: 610-261-2221

CUSTOMER/AGENT & ADDRESS:
Elk Environmental Services, Inc.
1420 Clarion Street
Reading, PA 19601

610-372-4760

PHONE:

TRUCK# 580 TRAILER# N/A

VEHICLE TYPE F.L EST. QTY 13: Tons

DRIVER NAME X [signature]

GENERATOR NAME & ADDRESS:
Atlantic States
183 Sitgreaves Street
Phillipsburg, NJ 08865

908-454-1161

PHONE:

DESCRIPTION OF COMMODITIES:
Hydraulic Oil & Soil

RCRA NONHAZARDOUS
DOT NONREGULATED
SEPARATED AT POINT OF ORIGIN
DESTINED FOR RECYCLING/REUSE

I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM.

SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:

RECEIVING DATE:

DELIVER TO:

CLEAN EARTH OF MD, INC.
1469 OAK RIDGE PLACE
HAGERSTOWN, MD 21740

I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT.

SIGNATURE: X ______

WEIGHTS:

GROSS ______

TARE ______

NET ______

TONS ______

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

№ 137032
Box 2098

04480-EX

APPROVAL # ______

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

LOAD # ______

CARRIER NAME & ADDRESS: Horwith Trucks Inc RT 329 Northampton PA 18067 PHONE: 1-800-220-8807	**CUSTOMER/AGENT & ADDRESS:** EQ Environmental Services, Inc. 1420 Clarion Street Reading, PA 18601 610-372-4760 PHONE:
TRUCK# 555 TRAILER# ______ VEHICLE TYPE T EST. QTY 15 Tons 7-6-04 DRIVER NAME X [signature]	**GENERATOR NAME & ADDRESS:** Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE:
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil **RCRA NONHAZARDOUS** **DOT NONREGULATED** **SEPARATED AT POINT OF ORIGIN** **DESTINED FOR RECYCLING/REUSE**	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:	**RECEIVING DATE:**
DELIVER TO: **CLEAN EARTH OF MD, INC.** **1469 OAK RIDGE PLACE** **HAGERSTOWN, MD 21740** I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. **SIGNATURE: X** ______	**WEIGHTS:** GROSS ______ TARE ______ NET ______ TONS ______

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137033

APPROVAL # 04480-EK

LOAD # BOX 20015

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Horwith Trucks Inc Rt 329 Northampton PA 1-6-04 18067 PHONE: 1-800-220-8807	EK Environmental Services Inc 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE:

	GENERATOR NAME & ADDRESS:
TRUCK# 555 TRAILER# ______	Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE:
VEHICLE TYPE T EST. QTY 15 FS	
DRIVER NAME X [signature]	

DESCRIPTION OF COMMODITIES:	
Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS ______ TARE ______ NET ______ TONS ______
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X ______	

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

20030

Clean Earth of MD, Inc.

№ 137026

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

APPROVAL # _____

LOAD # _____

CARRIER NAME & ADDRESS:

PHONE:

CUSTOMER/AGENT & ADDRESS:
Ek Environmental Services, Inc.
1420 Clarion Street
Reading, PA 19601

610-372-4760

PHONE:

TRUCK# 546 TRAILER# 313

VEHICLE TYPE _____ EST. QTY 19T

DRIVER NAME X Raymond S Bean

GENERATOR NAME & ADDRESS:
Atlantic States
183 Sillgreaves Street
Phillipsburg, NJ 08865

908-454-1161

PHONE:

DESCRIPTION OF COMMODITIES:
Hydraulic Oil & Soil

RCRA NONHAZARDOUS
DOT NONREGULATED
SEPARATED AT POINT OF ORIGIN
DESTINED FOR RECYCLING/REUSE

I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM.

SIGNATURE: X _____

BILL OF LADING

LOAD DATE:

RECEIVING DATE:

DELIVER TO:

CLEAN EARTH OF MD, INC.
1469 OAK RIDGE PLACE
HAGERSTOWN, MD 21740

WEIGHTS:

GROSS _____

TARE _____

NET _____

TONS _____

I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT.

SIGNATURE: X _____

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON HAZARDOUS MANIFEST

6-24-04

20100

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137027

APPROVAL # 04450-EK

LOAD # ______

CARRIER NAME & ADDRESS:
Horwith Trucks INC
PO Box 7 Rt 329
Northampton PA
PHONE 610-261-2220

CUSTOMER/AGENT & ADDRESS:
EK Environmental Services, Inc
1420 Clarion Street
Reading, PA 19601
610-372-4760
PHONE

TRUCK# 580 TRAILER# n/A

plate AE50394 PA

VEHICLE TYPE ______ EST. QTY 13 Tons

DRIVER NAME X [signature]

GENERATOR NAME & ADDRESS:
Atlantic States
183 Sagreaves Street
Phillipsburg, NJ 08865
908-454-1161
PHONE

DESCRIPTION OF COMMODITIES:
Hydraulic Oil & Soil

RCRA NONHAZARDOUS
DOT NONREGULATED
SEPARATED AT POINT OF ORIGIN
DESTINED FOR RECYCLING/REUSE

I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM.

SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:

RECEIVING DATE:

DELIVER TO:
CLEAN EARTH OF MD, INC.
1469 OAK RIDGE PLACE
HAGERSTOWN, MD 21740

I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT.

SIGNATURE: X ______

WEIGHTS:

GROSS ______

TARE ______

NET ______

TONS ______

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

25021

6-25-04

Clean Earth of MD, Inc.

№ 137024

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

APPROVAL # 04450-ES

LOAD #

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
[illegible]	EA Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760
PHONE:	PHONE:
TRUCK# 531 TRAILER# 304	GENERATOR NAME & ADDRESS: Atlantic States 183 Segraves Street Phillipsburg, NJ 08865 908-454-1161
VEHICLE TYPE Roll-off EST. QTY	PHONE:
DRIVER NAME X	
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS TARE NET TONS
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X	

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

3602)

Clean Earth of MD, Inc.

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

№ 137021

APPROVAL # 04480-EK

LOAD # 2

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Horwith Trucks Inc Rt. 329 Northampton PA 18067 PHONE: 610-261-2220	EH Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE:
TRUCK# 573 TRAILER# 305 VEHICLE TYPE R/O EST. QTY 15T DRIVER NAME X Jeff	GENERATOR NAME & ADDRESS: Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE:
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X Jim Arnold

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS ____ TARE ____
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X ____	NET ____ TONS ____

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST

20060

Clean Earth of MD, Inc.

№ 137025

1469 Oak Ridge Place
Hagerstown, MD 21740-7485
301-791-6220

APPROVAL # ____________

LOAD # ____________

CARRIER NAME & ADDRESS:	CUSTOMER/AGENT & ADDRESS:
Horwith Trucks Inc Rt 329 Northampton PA 610-261-2220 18067 PHONE:	E& Environmental Services, Inc. 1420 Clarion Street Reading, PA 19601 610-372-4760 PHONE:
TRUCK# 580 TRAILER# N/A VEHICLE TYPE ________ EST. QTY 13 Tons DRIVER NAME X [signature]	GENERATOR NAME & ADDRESS: Atlantic States 183 Sitgreaves Street Phillipsburg, NJ 08865 908-454-1161 PHONE:
DESCRIPTION OF COMMODITIES: Hydraulic Oil & Soil RCRA NONHAZARDOUS DOT NONREGULATED SEPARATED AT POINT OF ORIGIN DESTINED FOR RECYCLING/REUSE	I HEREBY CERTIFY THAT THE DESCRIBED COMMODITY UNDER THE ABOVE APPROVAL NO. IS THE SAME MATERIAL WHICH WAS ANALYZED FOR AND APPROVED IN THE APPLICATION FOR PROCESSING AT CLEAN EARTH OF MD, INC. FURTHERMORE, I CERTIFY THAT THESE MATERIALS WERE LOADED ON THE CARRIER AND TRUCK IDENTIFIED ON THIS FORM. SIGNATURE: X [signature]

BILL OF LADING

LOAD DATE:	RECEIVING DATE:
DELIVER TO: CLEAN EARTH OF MD, INC. 1469 OAK RIDGE PLACE HAGERSTOWN, MD 21740	WEIGHTS: GROSS ____________ TARE ____________
I HEREBY CERTIFY THAT THE ABOVE NAMED COMMODITY WAS RECEIVED AT CLEAN EARTH OF MD, INC. WITHOUT INCIDENT. SIGNATURE: X ____________	NET ____________ TONS ____________

White - Billing; Green - Broker; Canary - Facility; Pink - Truck; Goldenrod - Generator

MATERIALS NON-HAZARDOUS MANIFEST